

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

PhytoLab GmbH & Co. KG
Dutendorfer Straße 5 - 7, 91487 Vestenbergsgreuth

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

physical, physico-chemical, chemical, visual, microscopic, microbiological and selected molecular biological studies of plant-based foodstuffs and feedstuffs;

Pharmaceutical products and active ingredients

Test areas:

Physical, physical-chemical and chemical as well as microbiological and molecular-biological analysis of drugs, active ingredients and auxiliaries.

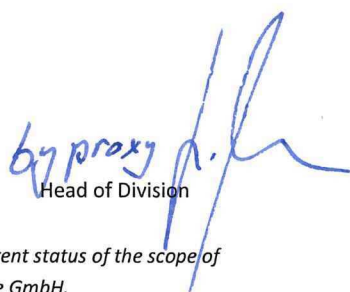
The accreditation certificate shall only apply in connection with the notice of accreditation of 26.11.2019 with the accreditation number D-PL-19308-02. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 16 pages.

Registration number of the certificate: **D-PL-19308-02-00**

Berlin,
26.11.2019

Dipl.-Ing. Andrea Valbuena
Head of Division

Translation issued:
21.04.2020



Head of Division

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.

<https://www.dakks.de/en/content/accredited-bodies-dakks>

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19308-02-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 26.11.2019

Date of issue: 21.04.2020

Holder of certificate:

PhytoLab GmbH & Co. KG
Dutendorfer Straße 5 - 7, 91487 Vestenbergsgreuth

Tests in the fields:

physical, physico-chemical, chemical, visual, microscopic, microbiological and selected molecular biological studies of plant-based foodstuffs and feedstuffs;

Pharmaceutical products and active ingredients

Test areas:

Physical, physical-chemical and chemical as well as microbiological and molecular-biological analysis of drugs, active ingredients and auxiliaries.

Within the given testing field marked with */, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:**

- *) the free choice of standard or equivalent testing methods.**
- ***) the modification, development and refinement of testing methods.**

The listed testing methods are exemplary.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

1 Plant-based foodstuffs and plant-based feedstuffs

1.1 Physical, physico-chemical and chemical analysis

1.1.1 Gravimetric determination of dry substance **

DIN 10800 2016-07	Analysis of tea - Determination of loss in mass of unground tea at 103 °C (Modification: <i>also in other selected plant-based foodstuffs and feedstuffs, single determination only</i>)
DIN 10806 2016-07	Analysis of tea - preparation of ground sample of defined dry matter content (gravimetry) (Modification: <i>also in other selected plant-based foodstuffs and feedstuffs, single determination only</i>)
USP 41 <731> 2018	Loss on drying (Modification: <i>in selected plant-based foodstuffs and feedstuffs</i>)
PV 304110 2016-03	Determination of dry residue (gravimetry) of glycolic extracts

1.1.2 Determination of water content by titrimetric investigation *

Ph. Eur. 9.4 2.5.12 Methode A 2018	Semi-microdetermination of water, Karl Fischer method (Modification: <i>also in other selected plant-based foodstuffs and feedstuffs</i>)
Ph. Eur. 9.4 2.5.32 2018	Micro determination of water - coulometric titration (Modification: <i>also in selected plant-based foodstuffs and feedstuffs</i>)

1.1.3 Determination of water content by distillation *

ISO 939 1980-05	Spices and condiments - Determination of moisture content - Entrainment method
Ph. Eur. 9.0, 2.2.13 2016	Determination of water by distillation (Modification: <i>also in selected plant-based foodstuffs and feedstuffs</i>)

-Translation-

1.1.4 Determination of volatile oils by steam distillation *

DIN EN ISO 6571 2018-03	Spices, condiments and herbs - Determination of volatile oil content (steam distillation method) (Modification: <i>Determination of the loss of mass (gravimetry) of unground tea at 103 °C according to DIN 10800:2016-07, PV 304000 (method 304450), adaptation of distillation times and weights to Ph.Eur., also in other selected plant-based foodstuffs and feedstuffs</i>)
Ph. Eur. 9.8 2.8.12 2018	Determination of the volatile oil content in drugs (steam distillation) (Modification: <i>to be indicated in % m/V, based on the dried or anhydrous drug, also in other selected plant-based foodstuffs and feedstuffs</i>)

1.1.5 Determination of radioactivity by gamma spectroscopy

PV 804200 2019-05	Determination of total radioactivity, expressed as Cs-137 equivalent (gamma spectroscopy, sodium iodine detector) in selected plant-based products
----------------------	--

1.1.6 Photometric determination of ingredients and residues **

DIN ISO 14502-1 2007-11	Determination of substances characteristic for green and black tea - Part 1: Content of total polyphenols in tea - Colorimetric method using Folin-Ciocalteu reagent. (Modification: <i>also in other selected plant-based foodstuffs and feedstuffs</i>)
DIN EN 12396-3 2000-10	Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues- Part 3: UV-spectrometric xanthogenate method (Modification: <i>only in selected plant-based foodstuffs and feedstuffs</i>)
PV 608063 2018-09	Determination of total flavonoids (colorimetric method using Folin-Ciocalteu reagent) in green and black tea

-Translation-

1.1.7 Determination of identity and purity by thin layer chromatography **

PV 203900 2019-04	Determination of identity of selected foodstuffs by thin layer chromatography
PV 203950 2019-04	Determination of identity from volatile oil in selected plant-based foodstuffs by thin layer chromatography
PV 309900 2019-04	Determination of purity of selected plant-based foodstuffs by thin layer chromatography

1.1.8 Determination of ingredients and organic contaminations by liquid chromatography with standard detectors (UV, Fluorescence) **

Ph. Eur. 9.0/0277 Licorice root 2016	Glycyrrhizinic acid relative to the dried drug (HPLC-UV) in licorice root (Modification: <i>in selected plant-based foodstuffs and feedstuffs</i>)
Ph. Eur. 9.0/1523 Ginseng root 2016	Ginsenoside Rg 1 and Rb 1 relative to the dried drug (HPLC-UV) in ginseng root (Modification: <i>in selected plant-based foodstuffs and feedstuffs</i>)
PV 403073 2014-02	Determination of coumarin (HPLC-UV) in cinnamon and cinnamon extracts
PV 605410 2014-02	Determination of ginsenoside content (HPLC-UV), calculated as Rg 1 and Rb 1, in ginseng extract
PV 805021 2014-12	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant-based products (matrix group I)
PM 805023 2018-11	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant-based products (matrix group II)
PV 805025 2015-01	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant-based products (matrix group III)
PM 805091 2019-04	Identification and determination of ochratoxin A (HPLC fluorescence) in plant-based products

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

1.1.9 Determination of ingredients, organic contaminants and pesticide residues by liquid chromatography with mass-selective detectors (MS, MS/MS) **

ASU L 00.00-115 2018-10	Investigation of foodstuffs - Multimethod for the determination of pesticide residues in plant-based foodstuffs by GC or LC following acetonitrile extraction/partitioning and purification by dispersive SPE in plant-based foodstuffs - Modular QuEChERS method (adoption of the standard DIN EN 15662, July 2018) <i>(Modification: only LC-MS/MS, different weights, extraction mixture of acetonitrile/methanol, chromatography modified, only with selected plant-based foodstuffs and feedstuffs)</i>
PV 504870 2017-12	Determination of anisatin (LC-MSD) in star anise and star anise oil
PV 720724 2018-08	Determination of nicotine (LC-MS/MS) in selected plant-based products
PV 720728 2018-04	Determination of phenoxy alkane carboxylic acids (LC-MS/MS) in selected plant-based products
PV 804920 2017-12	Determination of acrylamide (LC-MS/MS) in selected plant-based products
PV 805163 2018-12	Determination of ochratoxin A, based on dry matter, (LC-MS/MS) in selected plant products
PM 805521 2017-01	Determination of pyrrolizidine alkaloids and their N-oxides (LC-MS/MS) in selected plant products

1.1.10 Determination of ingredients, organic contaminants and pesticide residues by gas chromatography with standard detection (FID, FPD, ECD, NPD) **

DIN EN ISO 9832 2003-12	Animal and vegetable fats and oils - Determination of residual technical hexane content <i>(Modification: adaption to state of the art of technology, sample preparation and measurement (headspace), only in plant-based fats and oils)</i>
ASU L 00.00-34 2010-09	Investigation of foodstuffs- Modular multimethod for the determination of pesticide residues in plant-based foodstuffs (extended revised version of the DFG method, page 19) <i>(Modification: limited to the components D1, D2, E1, E2, E3, E6, E7, E9, only in selected plant-based foodstuffs and feedstuffs)</i>

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

ASU L 53.00-1 1999-11	Investigation of foodstuffs - Gas chromatographic determination of ethylene oxide and 2-chloroethanol in spices (Modification: <i>Six-point calibration with internal standard 1-bromo-2-propanol, reduced concentration of the sodium iodide and sodium thiosulfate solution, the ISTD is added before extraction, shake once, also in other selected plant based foodstuffs and feedstuffs</i>)
Ph. Eur. 9.7/0405 Peppermint oil 2019	Determination of purity (GC) on the basis of oil components in peppermint oil (Modification: also in selected plant-based foodstuffs and feedstuffs)
PV 403310 2017-03	Content of ethanol (GC) in liquid plant-based products
PV 730271 2014-08	Determination of phosphine (Headspace GC) in selected plant-based products
PV 805762 2017-03	Determination of residual solvents (Headspace GC) in % in selected plant-based products
PV 805763 2017-03	Determination of residual solvents (Headspace GC) in mg/kg in selected plant-based products

1.1.11 Determination of organic contaminants and pesticide residues by gas chromatography with mass-selective detectors (MS, MS/MS) **

ASU L 00.00-34 2010-09	Investigation of foodstuffs - Modular multimethod for the determination of pesticide residues in foodstuffs (extended version of the DFG method, page 19) (Modification: <i>limited to the component D4, measurement with GC-MS/MS, only in selected plant-based foodstuffs and feedstuffs</i>)
ASU L 47.08-02 2004-12	Investigation of foodstuffs - Determination of estragole in tea infusion by GC-MS (Modification: <i>sample weight and extraction volume reduced, single-point calibration, also in extract mixtures of several components</i>)
ASU L 47.08-03 2006-09	Investigation of foodstuffs - Determination of estragole in infusions of fennel and other tea-like products - GC-MS method (Modification: <i>infusion preparation also according to specification, single-point calibration</i>)

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

PV 720470 2015-12	Screening of pesticide residues (GC-MS/MS) in selected plant products
PV 720546 2017-03	Determination of pesticide residues: Glyphosate and aminomethylphosphonic acid (AMPA) by GC-MS in selected plant products
PV 730110 2017-04	Determination of pesticide residues: Phenylureas and their anilines by GC-MS in selected plant products
PV 800809 2015-12	Sample preparation for the determination of polycyclic aromatic hydrocarbons (PAHs) in selected plant products by GC-MS
PV 800812 2015-12	Determination of polycyclic aromatic hydrocarbons (PAHs) in selected plant-based products by GC-MS
PV 800817 2015-12	Determination of polycyclic aromatic hydrocarbons (PAHs) relative to the fat content in cocoa by GC-MS

1.1.12 Determination of elements by atomic absorption spectroscopy *

Ph. Eur. 9.0, 2.4.27 2016	Heavy metals in plant-based drugs and drug preparations; lead, cadmium, mercury and nickel via AAS (Modification: <i>also in selected plant-based foodstuffs and feedstuffs</i>)
------------------------------	--

1.1.13 Determination of anions and elements by mass spectrometry with inductively coupled plasma **

DIN EN 15111 2007-06	Foodstuffs - Determination of trace elements - Determination of iodine by ICP-MS (inductively coupled plasma mass spectrometry) (Modification: <i>Digestion in microwave instead of drying closet, sample filtration with C18 column instead of membrane filters, upper and lower endpoints of calibration range extended, only in selected plant-based foodstuffs and feedstuffs</i>)
Ph. Eur. 9.0, 2.4.27 2016	Determination of lead, cadmium, mercury (ICP-MS) in herbal drugs and drug preparations (Modification: <i>also for elements other than those mentioned in the monograph and in selected plant-based foodstuffs and feedstuffs</i>)
PV 730207 2017-05	Determination of inorganic bromide, calculated as bromide ion (ICP-MS) in selected plant products

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

PV 811100 2016-12	Determination of aluminium (ICP-MS) in selected plant products
PV 812300 2016-12	Determination of sodium (ICP-MS) in mg/kg in selected plant products

1.2 Determination of bacteria, moulds and yeasts using cultural microbiological methods *

ISO 21527-2 2008-07	Microbiology of foodstuffs and feedstuffs - Horizontal method for the enumeration of yeasts and moulds. - Colony count technique - Part 2: Products with a water activity equal to or less than 0,95 (Modification: <i>single approach for quantitative methods according to DIN EN ISO 7218</i>)
ISO 21528-2 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony counting method (Modification: <i>single approach for quantitative methods according to DIN EN ISO 7218</i>)
DIN EN ISO 6888-1 2003-12	Microbiology of foodstuffs and feedstuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 1: Method using Baird-Parker agar (withdrawn standard) (Modification: <i>single approach for quantitative methods according to DIN EN ISO 7218</i>)
DIN EN ISO 7932 2005-03	Microbiology of foodstuffs and feedstuffs - Horizontal method for counting presumptive <i>Bacillus cereus</i> - Colony counting method at 30 °C (Modification: <i>single approach for quantitative methods according to DIN EN ISO 7218</i>)

1.2 Molecularbiology

Du Pont BAX® System PCR AssAy for Screening <i>Salmonella</i> (D11000133) 2019-03	Method for the detection of <i>Salmonella</i> spp. in foodstuffs and feedstuffs using the BAX PCR system
--	--

-Translation-

1.3 Visual inspections

1.3.1 Verification of identity by simple visual inspections **

PV 201900
2019-04 Verification of identity by simple visual examination (macroscopic, magnifying glass) for selected plant raw materials and monoproducts

PV 204000
2017-05 Verification of identity by simple visual examination (macroscopic, magnifying glass) of selected plant mixtures

1.3.2 Verification of Identity by Microscopy

PV 202900
2019-08 Verification of identity by microscopy for selected plant products

2 Pharmaceuticals and active ingredients (herbal pharmaceuticals and preparations of herbal pharmaceuticals, homeopathic pharmaceutical products and preparations)

2.1 Physical, physical-chemical and chemical analysis of drugs, active ingredients and auxiliaries

2.1.1 Type of testing: Gravimetry **

Ph. Eur. 9.8, 2.2.32
2019 Loss on drying (gravimetry), method d)

Ph. Eur. 9.0, 2.8.17
2016 Loss on drying (gravimetry), extracts

USP 41 <731>
2018 Loss on drying

HAB H 2.2.6
2015 Determination of the dry matter residue (gravimetry) of liquid substances

PV 304110
2016-03 Determination of the dry matter residue (gravimetry) of glycolic extracts

-Translation-

2.1.2 Type of testing: Titrimetry *

Ph. Eur. 9.4 2.5.12,
Methode A
2018 Semi-microdetermination of water by the Karl Fischer method

Ph. Eur. 9.4 2.5.32
2018 Mikrodetermination of water - Coulometric titration

2.1.3 Type of testing: Distillation *

ISO 939
1980-05 Spices and condiments - Determination of moisture content -
Entrainment method
(Modification: *also in plant-based pharmaceutical raw materials*)

Ph. Eur. 9.0, 2.2.13
2016 Determination of water by distillation

2.1.4 Type of testing: Steam Distillation*

DIN EN ISO 6571
2018-03 Spices, condiments and herbs - Determination of volatile oil content
(Hydro-distillation method)
(Modification: *Determination of mass loss (gravimetry) of unground tea at 103 °C according to DIN 10800:2016-07, PV 304000 (method 304450), adaptation of distillation times and weights to Ph.Eur., also in selected vegetable pharmaceutical raw materials*)

Ph. Eur. 9.8 2.8.12
2019 Determination of volatile oil content in drugs (steam distillation)
(Modification: *expressed in % m/v, based on the dried or anhydrous drug*)

2.1.5 Type of testing: Gamma spectroscopy

PV 804200
2019-05 Determination of total radioactivity expressed as CS-137 equivalents
(gamma spectroscopy, sodium iodide detector) in selected plant-based
foodstuffs

-Translation-

2.1.6 Type of testing: Photometry **

DIN EN 12396-3 2000-10	Low-fat foodstuffs; Determination of dithiocarbamate and thiuram disulphide residues - Part 3: UV-spectrophotometric xanthogenate method (Modification: <i>also in selected plant-based pharmaceutical raw materials</i>)
Ph. Eur. 9.0/0206 Senna leaves 2016	Hydroxyanthracene glycosides, calculated as sennoside B, relative to the dried drug (spectral photometry) in senna leaves
Ph. Eur. 9.0/0207 Alexandrine senna pods 2016	Hydroxyanthracene glycosides, calculated as sennoside B, relative to the dried drug (spectral photometry) in alexandrine senna pods
Ph. Eur. 9.0/1261 Standardized senna leaf dry extract 2016	Hydroxyanthracene glycosides, calculated as sennoside B, relative to the dried extract (spectral photometry) in standardized senna leaf dry extract (Modification: <i>without reference to the dried extract</i>)
PV 608063 2018-09	Determination of total flavonoids (colorimetric with Folin-Ciocalteu reagent), in black and green tea

2.1.7 Type of testing: Thin layer chromatography**

PV 203900 2019-04	Determination of identity in selected plant-based products by thin-layer chromatography
PV 203950 2019-04	Determination of identity from volatile oil in selected plant-based products by thin-layer chromatography
PV 309900 2019-04	Determination of purity of selected plant-based foodstuffs by thin-layer chromatography

2.1.8 Type of testing: High performance liquid chromatography (UV, Fluorescence) **

Ph. Eur. 9.0/0277 Licorice root 2016	Glycyrrhizic acid, based on dried drug (HPLC-UV) in licorice root
--	---

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

Ph. Eur. 9.0/1523 Ginseng root 2016	Ginsenosides Rg 1 and Rb 1, based on the dried drug (HPLC-UV) in ginseng root
PV 403073 2014-02	Determination of coumarin (HPLC-UV) in cinnamon and cinnamon extracts
PV 605410 2014-02	Determination of ginsenoside content (HPLC-UV), calculated as Rg1 and Rb1 in ginseng extract
PV 805021 2014-12	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant products (matrix group I)
PM 805023 2018-11	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant products (matrix group II)
PV 805025 2015-01	Identification and determination of aflatoxin B1, B2, G1 and G2 (HPLC fluorescence) in plant products (matrix group II)
PM 805091 2019-04	Identification and determination of ochratoxin A (HPLC fluorescence) in plant products

2.1.9 Type of testing: High performance liquid chromatography (MS, MS/MS) **

ASU L 00.00-115 2018-10	Investigation of foodstuffs - Multimethod for the determination of pesticide residues with GC and LC after acetonitrile extraction/distribution and purification with dispersive SPE in plant-based foodstuffs - Modular QuEChERS method (adoption of the standard DIN EN 15662, July 2018) (Modification: <i>only LC-MS/MS, differing weights, extraction mixture of acetonitrile/methanol, chromatography modified, also in selected plant-based pharmaceutical raw materials</i>)
PV 504870 2017-12	Determination of anisatin (LC-MSD) in star anise and star anise oil
PV 720724 2018-08	Determination of nicotine (LC-MS/MS) in selected plant-based products
PV 720728 2018-04	Determination of phenoxyalkanoic acids (LC-MS/MS) in selected plant-based products
PV 804920 2017-12	Determination of acrylamide (LC-MS/MS) in selected plant products

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

PV 805163 2018-12	Determination of ochratoxin A, relative to dry matter (LC-MS/MS) in selected plant-based products
PM 805521 2017-01	Determination of pyrrolizidine alkaloids and their N-oxides (LC-MS/MS) in selected plant-based products

2.1.10 Type of testing: Gaschromatography (FID, FPD, ECD, NPD) **

DIN EN ISO 9832 2003-12	Animal and vegetable fats and oils - Determination of the content of technical residual hexane <i>(Modification: adaptation to the state of the art, sample preparation and measurement (headspace), only in plant-based fats and oils, also in selected plant-based raw materials for pharmaceuticals)</i>
ASU L 00.00-34 2010-09	Analysis of foodstuffs - Modular multimethod for the determination of pesticide residues in foodstuffs <i>(Modification: restricted to building blocks D1, D2, E1, E2, E3, E6, E7, E9, also in selected plant-based raw materials for pharmaceuticals)</i>
Ph. Eur. 9.7, 0405 Peppermint oil 2019	Determination of purity (GC) via oil components in peppermint oil
PV 403310 2017-03	Ethanol content (GC) in liquid plant-based products
PV 730271 2014-08	Determination of phosphine (Headspace-GC) in selected plant-based products
PV 805762 2017-03	Determination of residual solvents (Headspace-GC) in % in selected plant-based products
PV 805763 2017-03	Determination of residual solvents (Headspace-GC) in mg/kg in selected plant-based products

2.1.11 Type of testing: Gas chromatography (MS, MS/MS) **

ASU L 00.00-34 2010-09	Analysis of foodstuffs - Modular multimethod for the determination of pesticide residues in foodstuffs <i>(Modification: Restricted to module D4, measurement with GC-MS/MS, also in selected plant-based raw materials for pharmaceuticals)</i>
---------------------------	---

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

ASU L 47.08-02 2004-12	Analysis of foodstuffs - Determination of estragole in tea infusions by GC-MS (Modification: <i>weighing and extraction volume reduced, single-point calibration; also in extract mixtures of several components, also in selected plant-based raw materials for pharmaceuticals</i>)
ASU L 47.08-03 2006-09	Analysis of foodstuffs - Determination of estragole in infusions of fennel and other tea-like products - GC-MS method (Modification: <i>infusion preparation also according to specification, calibration, also in selected plant-based raw materials for pharmaceuticals</i>)
PV 720470 2015-12	Screening of pesticide residues (GC-MS/MS) in selected plant products
PV 720546 2017-03	Determination of pesticide residues: Glyphosate and aminomethylphosphonic acid (AMPA) by GC-MS in selected plant products
PV 730110 2017-04	Determination of pesticide residues: Phenylureas and their anilines by GC-MS in selected plant products
PV 800808 2015-12	Sample preparation for the determination of polycyclic aromatic hydrocarbons (PAHs) by GC-MS in tea infusions
PV 800813 2015-12	Determination of polycyclic aromatic hydrocarbons (PAHs) by GC-MS in tea infusions

2.1.12 Type of testing: Atomic absorption spectroscopy *

Ph. Eur. 9.0, 2.4.27 2016	Heavy metals in herbal drugs and drug preparations; lead, cadmium, mercury and nickel via AAS
------------------------------	---

2.1.13 Type of testing: Mass Spectrometry with inductively coupled plasma (ICP-MS) **

DIN EN 15111 2007-06	Foodstuffs - Determination of trace elements - Determination of iodine by ICP-MS (inductively coupled plasma mass spectrometry) (Modification: <i>digestion in microwave instead of drying closet, sample filtration with C18 columns instead of membrane filters, upper and lower endpoints of calibration range extended, also in selected plant-based raw materials for pharmaceuticals</i>)
-------------------------	---

-Translation-

Annex to the accreditation certificate D-PL-19308-02-00

Ph. Eur. 9.0, 2.4.27 2016	Determination of lead, cadmium, mercury (ICP-MS) in herbal drugs and drug preparations (Modification: <i>also for elements other than those mentioned in the monograph</i>)
PV 730207 2017-06	Determination of inorganic bromide, calculated as bromide ion (ICP-MS) in selected plant-based products
PV 811100 2016-12	Determination of aluminium (ICP-MS) in selected plant-based products

2.2 Analysis of biological pharmaceuticals, active ingredients and auxiliaries

2.2.1 Type of testing: Microbiological testing of non-sterile products **

Ph. Eur. 9.0, 2.6.12 2016	Microbiological examination of non-sterile products: Counting of microorganisms in pharmaceuticals and their initial and intermediate products: Total number of aerobic germs, counting on agar plates and total number of yeasts and moulds, counting on agar plates
Ph. Eur. 9.0, 2.6.13 2016	Microbiological examination of non-sterile products: Tests for certain microorganisms in pharmaceuticals and their raw materials and intermediate products: Bile salt-tolerant, Gram-negative bacteria, quantitative testing <i>Escherichia coli</i> , testing for absence/quantitative testing Salmonella, check for absence <i>Staphylococcus aureus</i> , check for absence <i>Pseudomonas aeruginosa</i> , examination for absence
Ph. Eur. 9.0, 2.6.31 2016	Microbiological testing in herbal pharmaceuticals and their initial and intermediate products

2.2.2 Type of testing: Amplification of nucleic acids (PCR) *

Du Pont BAX® System PCR AssAy for Screening Salmonella (D11000133) 2019-03	Method for the detection of Salmonella spp. in drugs using the BAX PCR system
---	---

-Translation-

2.3 Optical sensor technology

2.3.1 Type of testing: Visual analysis **

PV 201900 2019-04	Verification of identity by means of simple visual examination (macroscopic, magnifying glass) for selected plant-based raw materials and monoproducts
PV 204000 2017-05	Verification of identity by simple visual examination (macroscopic, magnifying glass) of selected plant-based mixtures

2.3.2 Type of testing: Microscopy **

PV 202900 2019-08	Verification of identity by microscopy for selected plant-based products
----------------------	--

Abbreviations used:

ASU	Official collection of testing methods in accordance with § 64 LFGB
DIN	German Standards Institute
EN	Europäische Standard
HAB	Homeopathic Pharmacopoeia
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
TS	Technical Specification
Ph. Eur.	Pharmacopoea Europaea
PM	test method (Prüfmethode) PhytoLab GmbH & Co. KG
PV	In-house test method (Prüfvorschrift) PhytoLab GmbH & Co. KG
USP	United States Pharmacopoeia

-Translation-