

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14198-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 09.12.2021

Date of issue: 09.12.2021

Holder of certificate:

Eurofins Dr. Specht Laboratorien GmbH
Am Neuländer Gewerbepark 2, 21079 Hamburg

Tests in the fields:

**physico-chemical and selected physical analysis of food, feed as well as plant materials, materials from the agricultural and horticultural sector;
selected physico-chemical analysis of soil and hygiene products**

Drugs and active ingredients

Testing field: Physical and physico-chemical drug-, active ingredient- and excipient analysis

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

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

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

1 Analysis of food and feed

1.1 Determination of pesticide residues using gas chromatography with standard detectors (ECD-, FPD-detector) **

DIN EN 13191-2 2000-10	Non-fatty foods - Determination of bromide residues - Part 2: Determination of inorganic bromide
DIN EN 15662 2018-07	Foods of plants origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method <i>(Deviation: Concentrates with reduced weight; when appropriate slightly modified dispersive SPE; application to plant feedingstuffs, fatty plant foods with low or middle water content as well)</i>
ASU L 00.00-34 2010-09	Analysis of foodstuffs - Modular multiple analytical method for the determination of pesticide residues in food stuff <i>(extended and revised version of the DFG S 19)</i>
ASU L 53.00-1 1999-11	Analysis of foodstuffs - Gas chromatographic determination of ethylene oxide and 2-chloroethanol in spices <i>(Deviation: application to SANTE commodity group 4a (with high oil, low water), 5 (high starch/protein/low water/fat), tea, dried herbs/vegetables)</i>
P-14.139.4 2018-01	Determination of Phosphine in selected material of plant and animal origin by GC-HS-FPD

1.2 Gas Chromatography with mass selective detectors (MS- and MS/MS detectors)

1.2.1 Sample preparation for the determination of pesticide residues by means of gas chromatography with mass selective detectors (MS- and MS/MS-detectors)

DIN EN 12393-2 2014-03	Foods of plant origin - Multiresidue methods for the determination of pesticide residues by GC or LC-MS/MS - Part 2: Methods for extraction and cleanup <i>(Deviation: Application as well to feed of plant origin)</i>
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1.2.2 Determination of pesticide residues by means of gas chromatography with mass selective detectors (MS- and MS/MS-detectors) **

DIN EN 12393-3 2014-01	Foods of plant origin - Multiresidue methods for the determination of pesticide residues by GC or LC-MS/MS - Part 3: Determination and confirmatory tests
DIN EN 15662 2018-07	Foods of plants origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (Deviation: <i>when appropriate slightly modified dispersive SPE</i>)
ASU L 00.00-34 2010-09	Analysis of foodstuffs - Modular multiple analytical method for the determination of pesticide residues in foodstuffs (extended and revised version of the DFG S 19)
P-14.089.5 2016-07	Gas chromatographic determination of organotin compounds in selected plant and animal materials by GC-MSD
P-14.090.4 2013-08	Gas chromatographic determination of phenylurea herbicides as well as other compounds splitting off aniline
P-14.098.4 2016-07	Gas chromatographic determination of phenoxy alcanoic acids in selected materials of plant and animal origin as well as soil by GC-MSD or GC-MS/MS
P-14.192.1 2020-10	Determination of pesticide residues in nuts and oilseeds using GC-MS/MS and LC-MS/MS following acetonitrile/water (95/5)-extraction and clean-up by dispersive SPE (QuOil-Nuts)
P-14.194.5 2021-08	Determination of ethylene oxide and 2-chloroethanol in plant material and selected animal material by GC-MS/MS

1.3 Determination of pesticide residues and contaminants by means of liquid chromatography with mass selective detectors (LC-MS/MS) **

DIN EN 15662 2018-07	Foods of plants origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (Deviation: <i>when appropriate slightly modified dispersive SPE; application to fatty food with low or middle water content as well</i>)
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ASU L 00.00-34 2010-09	Analysis of foodstuffs -Modular multiple analytical method for the determination of pesticide residues in foodstuffs (extended and revised version of the DFG S 19)
ASU L 00.00-164 2018-06	Analysis of foodstuffs - Determination of pesticide residues in foods of animal origin using LC-MS/MS analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE (Deviation: <i>when appropriate with reduced weight; when appropriate slightly modified dispersive SPE</i>)
P-14.152.3 2018-09	Determination of sulfonylureas in selected food and feed material of plant origin by LC-MS/MS (SuH1)
P-14.179.2 2018-01	Determination of pesticides in selected food of plant origin (citrus oils) by LC-MS/MS
P-14.180.5 2019-07	Determination of specific phenoxy alkanolic acids after hydrolysis in selected plant materials with LC-MS/MS
P-14.183.1 2016-09	Determination of cyclopiazonic acid and penicillin acid in selected plant material by LC-MS/MS
P-14.185.2 2019-07	Determination of pesticide residues in oils and fats of plant origin, egg and egg products and/or capsicum oleoresin by LC-MS/MS following acetonitrile extraction/partitioning and EMR-lipid-cleanup
P-14.186.3 2019-09	Determination of selected organotin compounds in/on selected materials of plant and animal origin as well as paper and paper products by LC-MS/MS
P-14.190.2 2019-03	Determination of ETU/PTU in selected foodstuff of plant and animal origin by LC-MS/MS
P-14.191.1 2018-09	Determination of dithianon in selected materials by LC-MS/MS
P-14.192.1 2020-10	Determination of pesticide residues in nuts and oilseeds using GC-MS/MS and LC-MS/MS following acetonitrile/water (95/5)-extraction and clean-up by dispersive SPE (QuOil-Nuts)

1.4 Photometric Determination of pesticide residues *

DIN EN 12396-1 1998-12	Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 1: Spectrometric method
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DIN EN 12396-3
2000-10 Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 3: UV-spectrometric xanthogenate method
(Deviation: *Application to feed as well as food and feed with high fat content*)

2 Drugs and active ingredients

2.1 Physical and physical-chemical drug, active ingredient and excipient analysis

2.1.1 Gas chromatography (pharmaceutical raw material) **

DIN EN 13191-2
2000-10 Non-fatty foods - Determination of bromide residues - Part 2: Determination of inorganic bromide
(Deviation: *Application to pharmaceutical raw material, pollen*)

DIN EN 15662
2018-07 Foods of plants origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method
(Deviation: *when appropriate slightly modified dispersive SPE, additional clean-up with toluene; Application to pharmaceutical raw material*)

ASU L 00.00-34
2010-09 Analysis of foodstuffs - Modular multiple analytical method for the determination of pesticide residues in foodstuffs (extended and revised version of the DFG S 19)
(Deviation: *Application to waxes, shellac and additional pharmaceutical raw material*)

ASU L 53.00-1
1999-11 Analysis of foodstuffs - Gas chromatographic determination of ethylene oxide and 2-chloroethanol in spices
(Deviation: *Application to pharmaceutical raw material*)

P-14.089.5
2016-07 Gas chromatographic determination of organotin compounds in selected plant and animal materials by GC-MSD

P-14.090.4
2013-08 Gas chromatographic determination of phenylurea herbicides as well as other compounds splitting off aniline

P-14.098.4
2016-07 Gas chromatographic determination of phenoxy alcanoic acids in selected materials of plant and animal origin as well as soil by GC-MSD or GC-MS/MS

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P-14.139.4
2018-01
Determination of phosphine in selected material of plant and animal origin by GC-HS-FPD
(here only relevant for material of plant origin)

2.1.2 Liquid chromatography (pharmaceutical raw materials) **

DIN EN 15662
2018-07
Foods of plants origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method
(Deviation: Application to pharmaceutical raw material, when appropriate slightly modified dispersive SPE)

P-14.179.2
2018-01
Determination of pesticides in selected food of plant origin (citrus oils) by LC-MS/MS
(also for pharmaceutical raw material)

P-14.185.2
2019-07
Determination of pesticide residues in oils and fats of plant origin, egg and egg products and/or capsicum oleoresin by LC-MS/MS following acetonitrile extraction/partitioning and EMR-lipid-cleanup

P-14.190.2
2019-03
Determination of ETU/PTU in selected food stuff of plant and animal origin by LC-MS/MS
(here only relevant for material of plant origin)

2.1.3 Photometric (pharmaceutical raw material) *

DIN EN 12396-1
1998-12
Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 1: Spectrometric method
(Deviation: Application to pharmaceutical raw materials)

DIN EN 12396-3
2000-10
Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 3: UV-spectrometric xanthogenate method
(Deviation: Application to pharmaceutical raw materials)

3 Analysis of plant materials, materials of agricultural and horticultural origin (e.g. cut flowers, seed, leaves, etc.)

3.1 Determination of pesticide residues using gas chromatography with standard detectors (ECD, FPD-detector) **

DIN EN 13191-2
2000-10 Non-fatty foods - Determination of bromide residues -
Part 2: Determination of inorganic bromide
(Deviation: *Application to plant materials, materials of agricultural and horticultural origin*)

P-14.139.4
2018-01 Determination of phosphine in selected material of plant origin by
GC-HS-FPD

3.2 Determination of pesticide residues using gas chromatography with mass selective detector (MS-detector) **

DIN EN 15662
2018-07 Foods of plant origin - Multimethod for the determination of
pesticide residues using GC- and LC-based analysis following
acetonitrile extraction/partitioning and clean-up by dispersive SPE -
Modular QuEChERS-method
(Deviation: *Application to plant materials, materials of agricultural and horticultural origin, when appropriate slightly modified dispersive SPE*)

P-14.089.5
2016-07 Gas chromatographic Determination of organotin compounds in
selected plant and animal materials by GC-MSD

P-14.194.5
2021-08 Determination of ethylene oxide and 2-chloroethanol in plant
material and selected animal material by GC-MS/MS

3.3 Determination of pesticide residues using liquid chromatography with mass selective detector (LC-MS/MS) **

DIN EN 15662
2018-07 Foods of plant origin - Multimethod for the determination of
pesticide residues using GC- and LC-based analysis following
acetonitrile extraction/partitioning and clean-up by dispersive SPE -
Modular QuEChERS-method
(Deviation: *Application to plant materials, materials of agricultural and horticultural origin, when appropriate slightly modified dispersive SPE*)

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P-14.186.3
2019-09

Determination of selected organotin compounds in selected materials of plant and animal origin as well as paper and paper products by LC-MS/MS

3.4 Photometric determination of pesticide residues *

DIN EN 12396-1
1998-12

Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 1: Spectrometric method
(Deviation: *Application to plant materials, materials of agricultural and horticultural origin*)

DIN EN 12396-3
2000-10

Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 3: UV-spectrometric xanthogenate method
(Deviation: *Application to plant materials, materials of agricultural and horticultural origin*)

4 Determination of Bromide

P-14.167.5
2021-08

Determination of bromide and chloride in plant and selected animal material, soil and selected hygiene products by GC-ECD
(Restriction: *here only bromide*)

Abbreviations used:

ASU	Collection of Official Methods under Article § 64 German Food and Feed Code (LFGB)
DFG	Deutsche Forschungsgemeinschaft e. V.
DIN	German Institute for Standardization
EN	European standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
P-XX.XXX.X	Standard Operating Procedure der Eurofins Dr. Specht Laboratorien GmbH

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