

## Deutsche Akkreditierungsstelle GmbH

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

**Valid from: 15.04.2020**

Date of issue: 15.04.2020

Holder of certificate:

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

Tests in the fields:

**physico-chemical and chemical analysis of food, selected feed, tobacco and tobacco products, soil, pharmaceutical raw materials, selected consumer articles, chemicals, paper and paper products, fibre, plant materials, materials from the agricultural and horticultural sector; selected physical analysis of soil and plant materials**

**The laboratory is permitted within the testing fields marked with \*/\*\*, 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 test methods are exemplary.**

**The laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates.**

**The laboratory maintains a current list of all test methods in a 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>*

**Annex to the accreditation certificate D-PL-14198-01-00**

**1 Analysis of food, selected feed, tobacco and tobacco products**

**1.1 Determination of residues and contaminants using gas chromatography with standard detectors (ECD-, FPD-detectors) \*\***

DIN EN 12396-2 1998-12	Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 2: Gas chromatographic method (Deviation: <i>application to tobacco</i> )
DIN EN 13191-2 2000-10	Non-fatty foods - Determination of bromide residues - Part 2: Determination of inorganic bromide (Deviation: <i>application to fatty samples like nuts</i> )
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>Concentrates with reduced weight; when appropriate slightly modified dispersive SPE; application to selected feedingstuffs, fatty 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 (extended and revised version of the DFG S 19)
ASU L 53.00-1 1999-11	Analysis of foodstuffs - Gas chromatographic determination of ethylene oxide and 2-chloroethanol in spices (Deviation: <i>application to tea, dried herbs, cereals</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 residues and contaminants by means of gas chromatography with mass selective detectors (MS- and MS/MS-detectors)**

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

DIN EN 12393-3 2014-01	Foods of plant origin – Multi residue 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 <i>(Deviation: when appropriate slightly modified dispersive SPE; application to fatty 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 foodstuffs <i>(extended and revised version of the DFG S 19)</i>
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-14.189.3 2018-09	Determination of Dithiocarbamates and/or Thiuram disulfide residues in selected food of plant and animal origin by GC-MSD
P-44.116.2 2016-04	Determination of Anethol in packet soups by GC-MS/MS

**1.3 Determination of 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 <i>(Deviation: 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 <i>(C when appropriate with reduced weight; when appropriate slightly modified dispersive SPE)</i>
P-14.065.5 2016-07	Determination of ETU and PTU in selected material of plant and animal origin by LC MS/MS
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 eggproducts and/or capsicumoleoresin by LC-MS/MS following acetonitrile extraction/partitioning and EMR-lipid-cleanup
P-14.186.3 2019-09	Determination of selected Organo Tin 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 food stuff of plant and animal origin by LC-MS/MS
P-14.191.1 2018-09	Determination of Dithianon in selected Plant Materials by LC-MS/MS

**1.4 Photometric Determination of residues and indices \***

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 also to feed as well as food and feed with a high fat content)

**1.5 Gravimetric determination of dry matter \*\***

ASU F 0001 (EG)  
2010-09

Analysis of feedingstuffs – Determination of moisture content in feeding-stuffs – annex III of Regulation (EC) No 152/2009 of 27 January 2009 which sets the sampling procedure and analytical methods for the official testing of feeding-stuffs

P-04.001.3  
2018-05

Determination of dry matter in soil, feed and plant materials

**2 Analysis of soil**

**2.1 Determination of residues and contaminants using gas chromatography with standard detectors (ECD, FPD-Detektor) \***

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 soil*)

DIN EN 13191-2  
2000-10

Non-fatty foods – Determination of bromide residues -  
Part 2: Determination of inorganic bromide  
(Deviation: *Application to soil*)

**2.2 Determination of residues and contaminants using gas chromatography with mass selective detectors (MS- und MS/MS-detectors) \*\***

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 S19)  
(Deviation: *Application to soil*)

P-14.090.4  
2013-08

Gas chromatographic determination of phenylurea herbicides as well as other compounds splitting off Aniline  
(Deviation: *Application to soil*)

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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

**2.3 Determination of residues and contaminants using 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: *application to soil, when appropriate slightly modified dispersive SPE*)

P-14.169.7  
2019-03 Determination of Perchlorate and Chlorate in plant and selected animal material and soil by LC-MS/MS

**2.4 Gravimetric determination of dry matter \*\***

DIN EN 15934  
2012-11 Sludge, treated biowaste, soil and waste – Calculation of dry matter fraction after determination of residue or water content

P-04.001.3  
2018-05 Determination of dry matter in soil, feed and plant materials

**3 Analysis of pharmaceutical raw material**

**3.1 Determination of residues and contaminants using gas chromatography with standard detectors (ECD, FPD-detectors) \*\***

DIN EN 12396-2  
1998-12 Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 2: Gas chromatographic method  
(Deviation: *application to pharmaceutical raw material*)

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

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 wax samples and ceraceous samples (shellac)*)

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ASU L 53.00-1 1999-11	Analysis of foodstuffs - Gas chromatographic determination of ethylene oxide and 2-chloroethanol in spices (Deviation: <i>application to pharmaceutical raw material</i> )
P-14.139.4 2018-01	Determination of Phosphine in selected material of plant and animal origin by GC-HS-FPD ( <i>here only relevant for material of plant origin</i> )

**3.2 Determination of residues and contaminants using gas chromatography with mass selective detectors (MS and MS/MS detectors) \*\***

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, additional clean-up with toluene</i> )
P-14.089.5 2016-07	Gaschromatographic 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 of Anilin
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

**3.3 Determination of residues and contaminants using liquid chromatography with mass selective detector (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</i> )
P-14.179.2 2018-01	Determination of pesticides in selected food of plant origin (citrus oils) by LC-MS/MS
P-14.185.2 2019-07	Determination of pesticide residues in oils and fats of plant origin, egg and eggproducts and/or capsicumoleoresin by LC-MS/MS following acetonitrile extraction/partitioning and EMR-lipid-cleanup

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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)*

**3.4          Photometric determination of residues \***

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)*

**4              Analysis of pesticide residues in chemicals, selected consumer products, paper, paper products and fibres**

**4.1          Determination of residues and contaminants using gas chromatography with standard detectors (ECD, FPD-detector) \***

ASUL 00.00-34  
2010-09                      Analysis of food - Modular multiple analytical method for the determination of pesticide residues in foodstuffs (extended and revised version of the DFG S 19)  
*(Deviation: Application to chemicals, selected consumer articles, paper and paper products and fibres)*

DIN EN 13191-2  
2000-10                      Non-fatty foods – Determination of bromide residues - Part 2: Determination of inorganic bromide  
*(Deviation: Application to paper and paper products)*

**4.2          Determination of residues and contaminants using gas chromatography with mass selective detectors (MS and MS/MS-detectors) \*\***

ASUL 00.00-34  
2010-09                      Analysis of food - Modular multiple analytical method for the determination of pesticide residues in foodstuffs (extended and revised version of the DFG S 19)  
*(Deviation: Application to chemicals, selected consumer articles, paper and paper products and fibres)*

P-14.173.1  
2016-06                      Determination of pesticide residues in selected consumer articles by GC-MS/MS

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**4.3 Determination of residues and contaminants using 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 <i>(Deviation: Application to chemicals, selected consumer articles, paper and paper products and fibres, when appropriate slightly modified dispersive SPE)</i>
P-14.186.3 2019-09	Determination of selected Organo Tin Compounds in/on selected materials of plant and animal origin as well as paper and paper products by LC-MS/MS

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

**5.1 Determination of residues and contaminants using gas chromatography with mass selective detectors (ECD, FPD-detector) \*\***

DIN EN 12396-2 1998-12	Non-fatty foods - Determination of dithiocarbamate and thiuram disulfide residues - Part 2: Gas chromatographic method <i>(Deviation: Application to plant materials, materials of agricultural and horticultural origin)</i>
DIN EN 13191-2 2000-10	Non-fatty foods – Determination of bromide residues - Part 2: Determination of inorganic bromide <i>(Deviation: Application to plant materials, materials of agricultural and horticultural origin)</i>
P-14.139.4 2018-01	Determination of Phosphine in selected material of plant and animal origin by GC-HS-FPD

**5.2 Determination of residues and contaminants using gas chromatography with mass selective detectors (MS and MS/MS-detectors) \*\***

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: Application to plant materials, materials of agricultural and horticultural origin, when appropriate slightly modified dispersive SPE)</i>
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P-14.089.5  
2016-07                      Gas chromatographic Determination of Organotin Compounds in selected  
plant and animal materials by GC-MSD

**5.3        Determination of residues and contaminants using 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: Application to plant materials, materials of agricultural and  
horticultural origin, when appropriate slightly modified dispersive SPE)*

P-14.186.3  
2019-09                      Determination of selected Organo Tin Compounds in/on selected  
materials of plant and animal origin as well as paper and paper products  
by LC-MS/MS

**5.4        Photometric determination of 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)*

**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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