

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14024-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from:

01.07.2021

Date of issue: 09.08.2021

Holder of certificate:

IGV Institut für Getreideverarbeitung GmbH Arthur-Scheunert-Allee 40/41, 14558 Nuthetal OT Bergholz-Rehbrücke

Tests in the fields:

physical, physico-chemical, molecular biological and immunological analysis of foodstuffs, cereals, feedstuffs and of other harvested crops; microbiological analysis of water, foodstuffs, cereals, feedstuffs and cosmetics; sensory analysis of bakery products, foodstuffs, pasta, sweets, cereals and cereal products

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

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Within the given testing field 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 testing methods. The listed testing methods are exemplary.

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

- Physical, physico-chemical analysis of foodstuffs, feedstuffs and harvested crops 1
- Gravimetric determination of ingredients and additives in foodstuffs, feedstuffs and 1.1 harvested crops *

ASU L 00.00-18 1997-01	Analysis of foodstuffs – Determination of fibre in food
Corrigendum 2017-10	
ASU L 16.01-1 2008-12	Analysis of foodstuffs – Determination of moisture content in cereal flour (Modification: Matrix <i>dry cereal products</i>)
ASU L 16.00-5 2017-10	Analysis of foodstuffs - Determination of total fat content in cereal products after acid digestion by extraction and gravimetry
ASU L 17.00-1 1982-05 Corrigendum 2002-12	Determination of loss on drying in bread including small baked products made of bread dough (Modification: <i>Here final drying</i>)
ASU L 17.00-3 1982-05 Corrigendum 2002-12	Analysis of foodstuffs – Determination of ash in bread including small baked products made of bread dough (Modification: <i>Matrix also plant-based foodstuffs, feedstuffs, harvested crops other than cereals</i>)



ASU L 17.00-4 2017-10	Analysis of foodstuffs – Determination of total fat content in bread including small baked products made of bread dough after acid digestion by extraction and gravimetry (Modification: Matrix also plant-based foodstuffs, feedstuffs, harvested crops)
ASU L 18.00-5 2017-10	Analysis of foodstuffs – Determination of total fat content in pastries
ASU L 18.00-23 2016-03	Analysis of foodstuffs – Determination of loss on drying in specific pastries
ASU L-53.00-4 1996-02	Analysis of foodstuffs – Analysis of spices and seasoning ingredients – Determination of total ash and acid-insoluble ash (adoption of German standard of the same name DIN 10223, January 1996 edition)
ICC 156 1994	Determination of the total fibre content in foodstuffs
PA_A-002 2019-10	Determination of the moisture content in cereals, ground cereal products and oil seeds and in cereal products preferably with a moisture content below 17%
PA_A-005 2020-01	Loss on drying (preliminary and final drying) in bread including small baked products made of bread dough
PA_A-019a 2020-01	Determination of the total fat content in milk and milk products and other liquid and viscous samples (Modification: Here for foodstuffs, feedstuffs and harvested crops)
Regulation (EC) 152/2009 Annex III, point M. Last amended 04.05.2017	Commission Regulation laying down the methods of sampling and analysis for the official control of feed – Methods of analysis to control the composition of feed materials and compound feed – Determination of crude ash

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Titrimetric determination of ingredients and additives as well as indicators in foodstuffs, 1.2 feedstuffs and harvested crops *

ASU L 01.00-10/1

Analysis of foodstuffs - Determination of nitrogen content in milk

2016-03

and milk products -Part 1: Kjeldahl principle and crude protein calculation

(Modification: Also for other liquid foodstuffs)

ASU L 13.00-39

Analysis of foodstuffs - Animal and vegetable fats and oils -2018-06

Determination of water content - Karl Fischer method (pyridine-

free)

ASU L 15.00-3

Analysis of foodstuffs - Determination of nitrogen content and 2019-07

calculation of crude protein content of cereals and pulses -

Kjeldahl method

ASU L 17.00-15

Analysis of foodstuffs – Determination of raw protein content in 2013-08

bread including small baked products made of bread dough -

Kjeldahl method

(Modification: Here also for plant-based foodstuffs, feedstuffs,

harvested crops)

ASU L 18.00 - 13

2013-08

Analysis of foodstuffs - Determination of crude protein content in

pastries - Kjeldahl method

ASU L 46.03-5

2006-12

Analysis of foodstuffs - Determination of water content in coffee

and coffee products by Karl Fischer method - Reference method

for coffee extract

DGF C-V 2 (06)

2006

Acid number and free fatty acid content (acidity)

DGF C-V 3 (02)

2002

Saponification value

Ph. Eur. 2.5.5A

2017

Peroxide number

(Modification: Here for foodstuffs, feedstuffs and harvested crops)

Regulation (EC) 152/2009

Annex III, point C. Last amended 04.05.2017

Commission Regulation laying down the methods of sampling and analysis for the official control of feed - Methods of analysis to control the composition of feed materials and compound feed

- Determination of the content of crude protein

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Polarimetric determination of ingredients and additives in plant-based foodstuffs, 1.3 harvested crops and feedstuffs

ASU L 17.00-5

2003-12

Analysis of foodstuffs – Determination of starch content in bread

including small baked products made of bread dough

(Modification: Matrix also plant-based foodstuffs, feedstuffs,

harvested crops)

Regulation (EC) 152/2009

Annex III, point L. Last amended 04.05.2017

Commission Regulation laying down the methods of sampling and analysis for the official control of feed - Methods of analysis to control the composition of feed materials and compound feed -

Determination of starch

Determination of physical indicators in foodstuffs 1.4

ISO 18787

2017-11

Foodstuffs - Determination of water activity

PA-OP 05-30

2019-02

Determination of the Brookfield viscosity of hydrocolloids

Volumetric determination of the content of essential oils in plant-based foodstuffs, 1.5 seasoning ingredients and flavourings *

DIN EN ISO 6571

2018-03

Spices, condiments and herbs - Determination of volatile oil

content (hydrodistillation method)

ASU L 53.00-10

2019-12

Analysis of foodstuffs – Determination of essential oil content in spices, seasoning ingredients and herbs - Steam distillation method (adoption of standard of the same name DIN EN ISO 6571, March

2018)

Ph. Eur. 2.8.12

2017

Determination of the content of essential oil in drugs

cation: Here also for plant-based foodstuffs-and products)

PA LMT-001

2018-06

Determination of essential oils in medicinal and aromatic plants and

herbs as well as in additives and flavourings

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Determination of anisidine number by photometry in foodstuffs, feedstuffs and harvested 1.6 crops *

Ph. Eur. 2.5.36

Anisidine value

2017

(Modification: Here for animal and vegetable fats and oils)

DGF C-VI 6e (12)

Anisidine value

2012

Determination of ingredients and additives and of residues and contaminants in foodstuffs, 1.7 feedstuffs, cereals and other harvested crops by HPLC with standard detectors (UV-/DAD, FLD) **

ASU L 53.05-1

2000-07

Analysis of foodstuffs - Pepper and pepper oleoresins -

Determination of piperine content - High performance liquid

chromatography (HPLC) method

(Adoption of German standard of the same name DIN 10235,

September 1999 edition)

PA A-202 2016-01

Determination of the amino acid spectrum after protein hydrolysis

and determination of unbound amino acids

Part A: Determination of the amino acid spectrum after acid

hydrolysis and OPA derivatisation

Part B: Determination of proline and hydroxyproline after acid

hydrolysis and NBDCl derivatisation

Part C: Determination of methionine and cysteine after oxidation,

acid hydrolysis and OPA derivatisation

Part D: Determination of tryptophan after alkaline hydrolysis

PA_A-203

2019-01

Determination of the sugars glucose, fructose, lactose, sucrose and

maltose by HPAEC/PAD (Dionex/ ThermoFisher)

PA A-210

2018-08

Determination of aflatoxins B₁,B₂,G₁,G₂ by HPLC after

immunoaffinity chromatographic extract clean-up and bromine

derivatisation (KOBRA cell)

PA A-212

2019-01

Determination of the fumonisins B₁, B₂ and B₃ by HPLC after SAX

clean-up of the extract

PA_A-230

2020-01

Determination of the preservatives sorbic acid, benzoic acid and

PHB ester by HPLC/UV detection in foodstuffs

PA A-246

2020-01

Determination of theobromine and caffeine by HPLC/UV detection

in foodstuffs

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1.8 Determination of ingredients and additives and of residues and contaminants in foodstuffs, feedstuffs, cereals and other harvested crops by liquid chromatography with mass-selective detection (LC-MS/MS) **

PA_A-282 A 2019-04	Multi-method for determination of plant protection product residues in plant-based foodstuffs and feedstuffs by GC-MS/MS and LC-MS/MS after acetonitrile extraction/partitioning and clean-up using dispersive SPE (QuEChERS)
PA_A-282 B 2019-04	Multi-method for determination of plant protection product residues in herbs and tea by GC-MS/MS and LC-MS/MS after acetonitrile extraction/partitioning and clean-up using dispersive SPE (QuEChERS)
PA_A-401 2019-11	Determination of acrylamide in food samples by LC-MS/MS
PA_A-403 2019-05	LC-MS/MS multi-method for the determination of fusarium toxins after clean-up in feedstuffs, cereals, flours and foodstuffs
PA_A-411 2016-10	Determination of highly polar pesticides in foodstuffs by LC-MS/MS
PA_A-412 2019-11	Determination of patulin in various sample matrices after clean-up using solid phase columns (AFFINIMIP® Patulin) by LC-MS/MS
PA_A-413 2019-11	LC-MS/MS multi-method for the simultaneous determination of the aflatoxins B1, B2, G1, G2 and ochratoxin A after clean-up in feedstuffs, cereals, flours and foodstuffs
PA_A-414 2019-09	Determination of drug residues in foodstuffs by LC-MS/MS Part A: Opiates Part B: Cannabinoids
PA_A-415 2019-09	Determination of ergot alkaloids in foodstuffs by LC-MS/MS
PA_A-417 2019-09	Determination of tropane alkaloids in foodstuffs by LC-MS/MS
PA_A-450 2019-05	Determination of free amino acids by EZ: faast-Kit® from Phenomenex and LC-MS/MS
PA_A-490 2019-05	Determination of cereal content in foodstuffs by LC-MS/MS

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Determination of ingredients and additives and of residues and contaminants in foodstuffs 1.9 by gas chromatography (GC) with standard detector (FID) **

ISO 7609 1985-12-01 Essential oils - Analysis by gas chromatography on capillary columns

General method

DGF CVI 10a

Gas chromatography: Analysis of fatty acids and fatty acid

2000

distribution

DGF CVI 11d

Fatty acid methyl ester (alkaline transesterification)

2019

Ph. Eur. 02/02/2028

2017

Detection of ingredients by gas chromatography (Modification: Here

for essential oils, vegetable fats and oils)

BfR solid phase extraction

method GC-FID 2012-05 Determination of hydrocarbons from mineral oil (MOSH and MOAH) or plastics (POSH, PAO) in packaging materials and dry foodstuffs

using solid phase extraction and GC-FID

PA A-272

2020-01

Determination of butyric acid as methyl ester (after

transesterification with TMSH) in fat from foodstuffs for calculation of the milk fat content as well as the butter or cream content

Determination of ingredients and additives and of residues and contaminants in 1.10 foodstuffs, feedstuffs, cereals and other harvested crops by gas chromatography with mass-selective detection (GC-MS and GC-MS-MS) **

PA A-282 A

2019-04

Multi-method for determination of plant protection product

using dispersive SPE (QuEChERS)

2019-04

residues in plant-based foodstuffs and feedstuffs by GC-MS/MS and

LC-MS/MS after acetonitrile extraction/partitioning and clean-up

PA A-282 B

Multi-method for determination of plant protection product

residues in herbs and tea by GC-MS/MS and LC-MS/MS after acetonitrile extraction/partitioning and clean-up using dispersive

SPE (QuEChERS)

(Modification: Matrix here also harvested crops)

PA_A-297

2019-11

Method for the determination of fatty acid-bound 3-chloropropane-

1,2-diol (3-MCPD ester) and 2,3-epoxipropane-1-ol (glycidol) in fats

and oils by GC-MS/MS (differential method)

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PA_A-298A Method for the determination of polycyclic aromatic hydrocarbons

2019-02 (PAHs) in plant-based foodstuffs by GC-MS/MS after acetone

extraction/partitioning and clean-up using dispersive SPE

(QuEChERS)

PA_LMT-003 Determination of volatile substances in a complex matrix

2020-01 (Restriction: Here only for flavourings and feedstuffs)

1.11 Sample preparation of foodstuffs, feedstuffs and other harvested crops

ASU L 00.00-19/1 Analysis of foodstuffs – Determination of trace elements in

2015-06 foodstuffs – Pressure digestion

(Modification: Here also in feedstuffs and other harvested crops)

1.12 Determination of elements by atomic absorption spectrometry (graphite furnace AAS and flame AAS) **

ASU L 00.00-19/2 Analysis of foodstuffs – Determination of trace elements in

1993-08 foodstuffs – Determination of iron, copper, manganese and zinc by

atomic absorption spectrometry (AAS) in the flame

(Restriction: Only determination of iron, copper, zinc; here also in

feedstuffs and other harvested crops)

ASU L 00.00-19/4 Analysis of foodstuffs – Determination of trace elements in

2003-12 foodstuffs – Part 4: Determination of mercury by cold-vapour

atomic absorption spectrometry (CVAAS) after pressure digestion (Modification: Calibration standards without potassium dichromate;

here also in feedstuffs and other harvested crops)

PA_A-321 Determination of sodium, potassium, calcium and magnesium by

2020-01 AAS in an air-acetylene flame

PA A-331 Determination of lead cadmium and nickel by graphite furnace AAS

2020-01

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2 Physical and physico-chemical analysis of cereals and ground cereal products

2.1 Gravimetric determination of ingredients in cereals and ground cereal products *

Cereals - Determination of bulk density, called mass per hectolitre -ISO 7971-3 Part 3: Routine methods 2019-06 Cereals and cereal products - Determination of moisture content -DIN EN ISO 712 Reference method 2010-04 (Modification: Here also in ground cereal products) Cereal and cereal products - Determination of impurities content in **DIN EN 15587** wheat (Triticum aestivum L.), durum wheat (Triticum durum Desf.), 2016-02 rye (Secale cereale L.), triticale (Triticosecale Wittmack spp.) and feed barley (Hordeum vulgare L.) Cereals - Determination of impurities content in maize (Zea mays, **DIN EN 16378**

2013 L.) and sorghum (Sorghum bicolor, L.)

ICC 104/1 Determination of ash in cereals and cereal products 1990

ICC 155

Determination of wet gluten quantity and quality (Perten gluten 1994

index) of whole grain wheat meal and wheat flour (Triticum aestivum)

2.2 Rheological analysis (thermal resistance measurements) in cereals and ground cereal products *

ICC 107/1

1995

Determination of the falling number according to Hagberg as a measure of the degree of alpha-amylase activity in grain and flour (Modification: Here also in ground cereal products)

ICC 114/1

Method for using the Brabender Extensograph

1992

ICC 115/1 Method for using the Brabender Farinograph 1992

ICC 126/1 Method for using the Brabender Amylograph 1992

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Volumetric determination of constituents in flour * 2.3

ICC 116/1

Determination of the sedimentation value (according to Zeleny) as

1994

an approximate measure of baking quality

ICC 118

Preparation of test flour from wheat samples for sedimentation test

1972

PA_BW-002

2009-01

Rapid mix test for assessing flour quality

Titrimetric determination of constituents 2.4

ASU L 15.00-3

2019-07

Analysis of foodstuffs - Determination of nitrogen content and calculation of crude protein content of cereals and pulses - Kjeldahl method (adoption of standard of the same name DIN EN ISO 20483,

March 2014)

Analysis parameters: Nitrogen content, crude protein content

Method principles: Kjeldahl method

Photometric determination of constituents in cereals and cereal products * 2.5

ICC 164

Determination of the content of damaged starch using Megazyme

1996

enzyme kit

ICC 166

1998

Determination of ß-glucan in barley, oats and rye

AOAC 995.16

1998

Beta-D-glucan in barley and oats

AACC 32-23.01

1998

Beta-D-glucan in barley and oats

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3 Microbiological analyses of foodstuffs and feedstuffs, cereals, as well as production water and process water from food companies

3.1 Dilutions for the detection of bacteria, yeasts and moulds by microbiological analysis in foodstuffs *

ASU L 00.00-89 2019-07 Analysis of foodstuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination of foodstuffs – Specific rules for the preparation of products other than milk and milk products, meat and meat products, fish and fish products (adoption of standard of the same name DIN EN ISO 6887-4, January 2012 edition)

ASU L 01.00-1 2011-06 Analysis of foodstuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological

examination – Part 5: Specific rules for the preparation of milk and milk products (adoption of standard of the same name DIN EN ISO

6887-5, January 2011 edition)

ASU L 06.00-16 2004-12 Analysis of foodstuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – Specific rules for the preparation of meat and meat products (adoption of standard of the same name DIN EN ISO 6887-2, January 2004 edition)

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

Water quality – Enumeration of culturable microorganisms – DIN EN ISO 6222 (K 5) Colony count by inoculation in a nutrient agar culture medium 1999-07 Water quality - Detection and enumeration of Pseudomonas DIN EN ISO 16266 (K 11) aeruginosa – Membrane filtration method 2008-05 Water quality - Enumeration of Escherichia coli and coliform DIN EN ISO 9308-1 (K 12) bacteria - Part 1: Membrane filtration method for waters with low 2017-09 bacterial background flora Water quality - Detection and enumeration of intestinal DIN EN ISO 7899-2 (K 15) enterococci – Part 2: Membrane filtration method 2000-11 Water quality - Enumeration of legionella DIN EN ISO 11731 (K 23) 2019-03 Water quality – Enumeration of Clostridium perfringens – Method DIN EN ISO 14189 (K 24) using membrane filtration 2016-11

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ASU L 00.00-20

2018-03

Analysis of foodstuffs - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of

Salmonella spp. (adoption of standard of the same name

DIN EN ISO 6579-1, July 2017)

(Restriction: Without Annex D; here also for foodstuffs, feedstuffs,

cereals and ground cereal products)

ASU L 00.00-22

2018-03

Analysis of foodstuffs – Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. --Part 2: Enumeration method (adoption of standard of the same name DIN EN ISO 11290-2, September 2017) (Modification: Here

also for feedstuffs, cereals and ground cereal products)

ASU L 00.00-32/1

2018-03

Analysis of foodstuffs – Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. --Part 1: Detection technique (adoption of standard of the same name DIN EN ISO 11290-1, September 2017) (Modification: Here

also for feedstuffs, cereals and ground cereal products)

ASU L 00.00-33

2006-09

Analysis of foodstuffs - Horizontal method for the enumeration of presumptive Bacillus cereus - Colony-count technique at 30 °C

(adoption of standard of the same name DIN EN ISO 7932, March

2004 edition)

(Modification: Here also for feedstuffs, cereals and ground cereal

products)

ASU L 00.00-55

2019-12

Analysis of foodstuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) in foodstuffs - Part 1: Technique using Baird-Parker

agar medium (adoption of standard of the same name

DIN EN ISO 6888-1, June 2019 edition)

(Modification: Here also for feedstuffs, cereals and ground cereal

products)

ASU L 00.00-57

2006-12

Analysis of foodstuffs - Methods for the enumeration of Clostridium perfringens in foodstuffs - Colony-count technique (adoption of standard of the same name DIN EN ISO 7937,

November 2004 edition)

(Modification: Here also for feedstuffs, cereals and ground cereal

products)

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ASU L 00.00-88/2

2015-06

Analysis of foodstuffs – Horizontal method for the enumeration of microorganisms - Part 2: Colony count at 30 degrees C by the surface plating technique (adoption of standard of the same

name DIN EN ISO 4833-2, May 2014 edition)

(Modification: Here also for feedstuffs, cereals and ground cereal

products)

ASU L 00.00-133/2

2019-12

Analysis of foodstuffs - Horizontal method for the detection and

enumeration of Enterobacteriaceae - Part 2: Colony-count

technique (adoption of standard of the same name

DIN EN ISO 21528-2, May 2019)

ASU L 01.00-3

1987-03

Analysis of foodstuffs - Determination of coliform bacteria in milk, milk products, butter, cheese and ice cream - Method with

solid culture medium

(Modification: Here also for foodstuffs, feedstuffs, cereals and

ground cereal products;

ASU L 01.00-25

2002-12

Analysis of foodstuffs - Determination of Escherichia coli in milk, milk products, butter, cheese and ice cream - Method with liquid

culture medium

(Modification: Here also other foodstuffs, feedstuffs, cereals and

ground cereal products)

ASU L 01.00-37

1991-12

Analysis of foodstuffs – Determination of the number of yeasts

and moulds in milk and milk products; reference method (Modification: Here also for foodstuffs, feedstuffs, cereals and

ground cereal products;

ASU L 02.07-2

1987-03

Analysis of foodstuffs – Determination of coagulase-positive staphylococci in dried milk products and processed cheese;

method with selective enrichment

(Modification: additionally modified for Enterococcus; here also

for other foodstuffs, feedstuffs, cereals and ground cereal

products)

ASU L 06.00-35

2017-10

Analysis of foodstuffs – Determination of aerobically growing lactic acid bacteria in meat and meat products - Spatula method

(reference method) (adoption of standard of the same name DIN

10109, May 2016 edition)

(Modification: Here also for foodstuffs)

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Enrichment method, cultural-microbiological determination of specific germs with mass 3.3 spectrometric confirmation in foodstuffs and feedstuffs

PA BT-100 2019-10

Mass spectrometric confirmation of bacterial and yeast species

using Maldi-TOF/MS and Biotyper software

PA BT-101 2019-10

Mass spectrometric confirmation of yeast species and moulds

using Maldi-TOF/MS and Biotyper software

Microbiological analysis of cosmetics 4

Determination of bacteria, yeasts and moulds using cultural microbiological methods * 4.1

DIN EN ISO 16212

Cosmetics - Microbiology - Enumeration of yeast and mould

2017-09

DIN EN ISO 21149

Cosmetics – Microbiology –Enumeration and detection of aerobic

2017-11

mesophilic bacteria

DIN EN ISO 22717

Cosmetics - Microbiology - Detection of Pseudomonas

2016-05

aeruginosa

DIN EN ISO 22718

2016-05

Cosmetics - Microbiology - Detection of Staphylococcus aureus

- Sensory analysis of foodstuffs 5
- Simple descriptive sensory analysis of bakery products, foodstuffs, pasta, sweets, cereals 5.1 and cereal products

ASU L 00.90-6

Analysis of foodstuffs – Sensory test methods – Basic descriptive

2015-06

test

Determination of appearance, odour and taste using specific sensory tests in bakery 5.2 products, foodstuffs, pasta, sweets, cereals and cereal products *

ASU L 00.90-12

2019-03

Analysis of foodstuffs - Sensory analysis - Assessment

(determination and verification) of the minimum shelf life of

foodstuffs

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ASU L 00.90-14

2019-03

Analysis of foodstuffs - Sensory test methods - Descriptive test

followed by quality assessment

(Modification: Also as a consensus group test (group test) of at least

3 examiners or individual examination by one examiner)

- Molecular biological analysis of foodstuffs and feedstuffs 6
- DNA extraction for the determination of species and genetically modified organisms by 6.1 molecular biological analysis in foodstuffs and feedstuffs *

r-biopharm SureFood® Prep Basic S1052 2019-02

Preparation of DNA from foodstuffs, feedstuffs and raw materials

r-biopharm SureFood® Prep Advanced S1053 2019-02

Preparation of DNA from highly processed foodstuffs and feedstuffs

Determination of genetically modified organisms and species approved in the EU by 6.2 multiplex PCR *

r-biopharm

SureFood® GMO Screen 4plex

35S-NOS-FMV+IAC S2126

2016-12

Qualitative determination of material from GMOs approved in the EU in foodstuffs by real-time PCR GMO screening 35S + NOS + FMV

(Modification: Here also in feedstuffs, raw materials)

r-biopharm SureFood® Animal ID 4plex Beef/Horse/Pork +IAAC S6126

2019-02

Qualitative determination of DNA from beef, horse and pork in

foodstuffs by real-time PCR

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Determination of allergens in foodstuffs by enzyme immunoassay (ELISA test kits) * 7

r-biopharm

Quantitative determination of soy in foodstuffs by ELISA

Ridascreen® Fast Soya

Item no.: R7102

2016-07

Quantitative determination of gluten (gliadin) in foodstuffs by ELISA

r-biopharm

Ridascreen® Gliadin Item no.: R7001

2015-10

r-biopharm

Ridascreen® Gliadin

competitive Item no.: R7021

2016-09

Quantitative determination of gluten (gliadin) in fermented or

hydrolysed foodstuffs by ELISA

Abbreviations used:

American Association for Clinical Chemistry AACC

Association of Official Analytical Chemists AOAC

Amtliche Sammlung von Untersuchungsverfahren (Official Collection of **ASU**

Test Methods) on the basis of § 64 LFGB (German Food and Feed Act)

Method of the German Federal Institute for Risk Assessment BfR method

Deutsche Forschungsgemeinschaft (German Research Foundation) DFG

Deutsche Gesellschaft für Fettwissenschaft e.V. (German Society for Fat DGF

Research)

(German standard methods for analysis of fats, fat products, surfactants

and related substances)

Deutsches Institut für Normung e.V. (German Institute for DIN

Standardization)

Deoxyribonucleic acid DNA

European standard EN

International Association for Cereal Science and Technology ICC

International Electrotechnical Commission IEC International Organization for Standardization ISO International Union of Pure and Applied Chemistry

IUPAC Lebensmittel- und Futtermittelgesetzbuch (German Food and Feed Act) **LFGB**

Test instruction of IGV GmbH PA_ European Pharmacopoeia Ph. Eur.

Verband Deutscher Landwirtschaftlicher Untersuchungs- und **VDLUFA**

Forschungsanstalten (Association of German Agricultural Testing and

Research Institutions)

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