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1 Investigation of food, animal feedstuffs**1.1 Physical, physio-chemical and chemical investigations****1.1.1 Determination of ingredients, residues and contaminants by LC-MS-MS in food and feed ****

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 30 2001-07	Determination of anabolic steroid hormones in dietary supplements by LC-MS-MS	
SOP-No. 62 2016-09	Determination of β agonists from milk and meat by LC-MS-MS	
SOP-No. 87 2020-06	Determination of histamine in food by LC-MS-MS	
SOP-No. 90 2020-07	Determination of nitrofurans metabolites in food by LC-MS-MS	
SOP-No. 91 2019-07	Determination of coccidiostats in food by LC-MS-MS	
SOP-No. 92 2018-06	Determination of quinolones from food by LC-MS-MS	
SOP-No. 97 2022-03	Determination of malachite green in fish and fish products by LC-MS-MS	
SOP-No. 113 2016-06	Determination of fumagillin in honey by LC-MS-MS	
SOP-No. 129 2016-10	Determination of sulfonamides in food by LC-MS-MS	
SOP-No. 137 2016-06	Determination of levamisole in food by LC-MS-MS	
SOP-No. 138 2021-11	Determination of mycotoxins in cereals by LC-MS-MS	
SOP-No. 141 2012-05	Determination of NSAIDs (Non-steroidal anti-inflammatory drugs) and pesticides in food	
SOP-No. 142 2016-09	Determination of thiouraciles in food by LC-MS-MS	
SOP-No. 144 2016-09	Determination of imidazoles from food by LC-MS-MS	
SOP-No. 150 2023-04	Determination of per- and polyfluorinated alkyl substances (PFAS) in fruit, vegetables, complementary food, milk, milk powder, cereals, fish and meat by LC-MS/MS	
SOP-No. 195 2022-01	Determination of alkaloids in cereal products and feed by LC-MS-MS	
SOP-No. 196 2018-09	Determination of nicotine and cotinine in food by LC-MS-MS	
SOP-No. 197 2016-07	Determination of nicotine in fungal products by LC-MS-MS	
SOP-No. 232 2011-06	Determination of glyphosate, AMPA and glufosinate in food and feed by LC-MS-MS	

SOP-No. 253 2016-06	Determination of phenylbutazone in food by LC-MS-MS	
SOP-No. 286 2011-11	Determination of tallowamine from food by LC-MS-MS	
SOP-No.323 2013-08	Determination of quaternary ammonium compounds (QAV) in food and feed by LC-MS-MS	
SOP-No.484 2023-02	Determination of chloramphenicol, florfenicol and thiamphenicol in food by LC-MS-MS	
SOP-No.496 2016-08	Determination of guazatine acetate in bananas and citrus fruits	
SOP-No. 498 2016-09	Determination of solanine and chaconine in food by LC-MS-MS	
SOP-No. 502 2017-03	Determination of mycotoxins in high-fat matrices and dried fruit	
SOP-No. 508 2023-03	Determination of Alternaria toxins in cereals, fruit preparations and oil by LC-MS-MS	
SOP-No. 509 2016-11	Determination of photo initiators in food by LC-MS-MS	
SOP-No. 518 2022-04	Determination of ergot alkaloids in cereals and animal feed by LC-MS-MS	
SOP-No. 524 2018-01	Determination of sialic acid in dairy products and infant formula by LC-MS-MS	
SOP-No. 529 2019-02	Determination of sphingomyelin in dairy products and infant formula by LC-MS-MS	
SOP-No. 533 2018-03	Determination of cucurbitacin in pumpkin plants (zucchini, pumpkin, cucumber) and baby porridge by LC-MS-MS	
SOP-No. 541 2018-08	Determination of furocoumarins in food by LC-MS-MS	
SOP-No. 543 2022-11	Determination of acrylamide in dry, heated foods, packaging, hygiene products and paper using LC-MSMS <i>Restriction: here only food</i>	
SOP-No. 545 2020-02	Determination of opium alkaloids in Cerealia and poppy seeds by LC-MS-MS	
SOP-No. 552 2019-11	Determination of β lactams in food by LC-MS-MS	
SOP-No. 617 2023-06	Determination of sulfonamides in food by LC-MS-MS	
SOP-No. 622 2022-11	Determination of pyrrolizidine alkaloids in food LC-MS-MS	

SOP-No. 623 2023-03	Determination of patulin in fruits, purees, concentrates and fruit preparations	
SOP-No. 642 2021-12	Determination of cannabinoids in food by LC-MS-MS	
SOP-No. 643 2021-12	Determination of vanillin and vanilla accompanying substances in food by LC-MS-MS	
SOP-No. 650 2021-12	Determination of Sudan dyes in spices, oleoresin and sauces by LC-MS-MS	
SOP-No. 670 2022-11	Determination of vitamin B1 (thiamine) in cereal-based baby food by LC-MS-MS	
SOP-No. 675 2023-03	Determination of Closantel in meat by 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: <i>here only with LC-MS-MS</i>)	SOP-No. 117 2020-06
EURL-SRM QuPPE 2019-05	Quick method for the analysis of numerous highly polar pesticides in food involving extraction with acidified methanol and LC-MS/MS measurement (QuPPE-Method) (Modifications: <i>column, eluent</i> <i>Extension: Method 4.1 to Matrin and Oxymatrine</i>)	SOP-No. 495 2020-06 SOP-No. 657 2023-04
ASU L 06.00-48V 2000-07	Determination of tetracyclines in meat, fish, egg, honey according to § 64 LFGB L 06.00-48 by LC-MS-MS	SOP-No. 60 2020-07

1.1.2 Determination of arsenic species in food and feed by ion chromatography and mass selective detection (IC-ICP-MS)

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 16802 2016-07	Food – Determination of elements and their compounds – Determination of inorganic arsenic in food of marine origin and plant foods with anion exchange HPLC-ICP-MS (modification: matrix <i>here also feed</i>)	SOP-No. 458 2021-08

1.1.3 Determination of ingredients, residues and contaminants by gas chromatography with conventional detectors (GC-FID) in food and feed**

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DGF C-VI 10a 2000	Gas chromatography: analysis of fatty acids and fatty acid distribution (Modification: <i>Extraction</i>)	SOP-No. 512 2019-10
SOP-No. 418 2021-06	Determination of mineral oil (MOSH & MOAH) in food using online coupled LC-GC-FID	
SOP-No. 525 2018-07	Determination of cholesterol in dairy products and infant formula by GC-FID	

1.1.4 Determination of ingredients, residues and contaminants by gas chromatography with mass-selective detection (GC-MSD, GC-MS-MS) in food and feed**

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 15662 2018-07	Plant foods - multi-method for the determination of pesticide residues with GC and LC after acetonitrile extraction/distribution and purification with dispersive SPE - Modular QuEChERS process (Modification: <i>Analysis here only with GC-MS-MS</i>)	SOP-No. 117 2020-06
SOP-No. 23 2019-04	Determination of alkylphenols, alkylphenol ethoxylates and bisphenols as well as their derivatives in food and solids by GC-MSD (deviation: <i>here only food</i>)	
SOP-No. 33 2001-10	Determination of musk compounds in oils by GC-MSD	
SOP-No. 42 2023-03	Determination of flame retardants in house dust, sediments, fish, water, food, feed, electronic waste and consumer goods (Deviation: <i>here only food and feed</i>)	
SOP-No. 72 2021-05	Determination of furan in food by HS-GC-MSD	
SOP-No. 73 2020-02	Determination of residual solvents in food, environmental and material samples using GC-MSD	
SOP-No. 86 2010-05	Determination of PCBs in food and feed by GC-MSD	
SOP-No. 109 2020-05	Determination of EC and EPA PAHs in food and feed by GC-MSD	
SOP-No. 121 2006-04	Determination of epoxidized soybean oil (ESBO) in food and consumer goods (Deviation: <i>here only food</i>)	
SOP-No. 126 2007-05	Determination of o-phenylphenol in food by GC-MSD	

SOP-No. 132 2018-11	Determination of phthalic acid esters and plasticizers in food by GC-MSD	
SOP-No. 146 2008-04	Determination of organochlorine pesticides in food by GC-MSD	
SOP-No. 158 2008-07	Determination of pesticides in spices, tea and tea products by GC-MSD and LC-MS-MS (Deviation: here only GC-MSD)	
SOP-No. 259 2011-03	Determination of carnauba wax of fruit surfaces (Leaching) by GC-MS	
SOP-No. 303 2014-01	Determination of phenoxycarboxylic acids in food by GC-MSD	
SOP-No. 363 2013-08	Determination of flame retardants in food and feed by GC-MSD	SOP-No. 42 2016-12
SOP-No. 364 2013-08	Determination of ethyl hexanoic acid from food samples using GC-MSD	SOP-No. 71 2005-04
SOP-No. 367 2013-08	Determination of estrogens and phytoestrogens in food and feed by GC-MSD	SOP-No. 74 2005-04
SOP-No. 368 2013-08	Determination of fattening aids in food and feed by GC-MSD	SOP-No. 76 2005-04
SOP-No. 370 2013-08	Determination of stilbenes in food and feed by GC-MSD	SOP-No. 98 2005-04
SOP-No. 377 2013-08	Determination of melamine in food and feed by GC-MSD	SOP-No. 223 2009-10
SOP-No. 557 2020-11	Determination of phenol and chlorophenols from food by GC-MSD	
SOP-No. 636 2022-04	Determination of ethylene oxide in cereals using Headspace GC-MSD	
SOP-No. 647 2021-05	Determination of residual solvents by headspace GC-MSD based on JECFA	
SOP-No. 653 2022-01	Determination of 2-chloroethanol and ethylene oxide in food of plant origin by the QuEChERS method by GC-MSMS	
DGF C-VI 10a 2000	Gas chromatography of fatty acid methyl esters (<i>Modification: extraction; Extension to animal processes</i>)	SOP-No. 512 2019-10
DGF C-VI 18(10) 21. Auflage 2015	Fatty acid-bound 3-chloropropane-1,2-diol (3-MCPD ester) and 2,3-epoxypropane-1-ol (glycidol). Determination in fats and oils by GC-MS (difference method)	SOP-No. 534 2020-12
ASU L 00.00-36/2 2004-07	Determination of bromide residues in low-fat foods – Part 2: Determination of inorganic bromide	SOP-No. 120 2006-04
ASU L 00.00-49/2	Investigation of food – Low-fat foods – Determination of dithiocarbamate and thiuram disulfide residues –	SOP-No. 578 2023-06

1999-11	Part 2: Gas chromatographic method (modification: <i>detector MSD; Reduction reaction approach 1:10; Headspace Sampler; Incubation at 90°C</i>)	
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1.1.5 Determination of contaminants by means of high-resolution gas chromatography / high-resolution mass spectrometry (HRGC-HRMS) in food and feed

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
EU VO 2017/644 2017-04	Establishment of sampling methods and methods of analysis for the control of dioxin and dioxin-like PCBs in certain foodstuffs (Modification: <i>internal standard OCDD for OCDF</i>)	SOP-No. 227 2021-11
EU VO 2017/771 2017-05	Establishment of sampling methods and methods of analysis for the control of dioxin and dioxin-like PCBs in certain feeding stuffs (Modification: <i>internal standard OCDD for OCDF</i>)	SOP-No. 227 2021-11
SOP-No. 559 2019-05	Determination of phosphine in food by HS-GC-MSD	

1.1.6 Determination of ingredients and additives using High-performance Anion Exchange Chromatography (HPAEC) in food

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 248 2017-01	Determination of galactooligosaccharides (GOS) in baby food using HPAEC-PAD	
SOP-No. 569 2021-08	Determination of sugars in food by HPAEC-PAD	
AOAC 2001.02 2002	Determination of trans-Galactooligosaccharides (TGOS) in selected food products (Einschränkung: <i>hier nur Untersuchung von GOS-Rohstoffe</i>)	SOP-No. 522 2023-06

1.1.7 Determination of elements in food and feed by inductively coupled plasma mass spectrometry (ICP-MS) **

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 66 2020-06	Determination of free ionizable copper in Cu-chlorophyll by extraction / ICP-MS	
SOP-No. 81 2021-01	Determination of methylmercury in food, feed and oils by distillation/ ICP-MS	

DIN EN ISO 17294-2 2017-01	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements einschließlich Uranium isotopes (Modification: <i>Analytes here also Ta, Ti; Investigation of digestion solutions of food and feed</i>)	SOP-No. 53 2021-09
ASU L 00.00-93 2008-12	examination of food - determination of iodine in food; ICP-MS procedure	SOP-No. 160 2020-08

1.1.8 Determination of ingredients and key figures by means of titrimetric tests in food *

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 00.00-46/1 1999-11	Investigation of food – Determination of sulphite in food – Part 1: Optimized Monier-Williams process	SOP-No. 256 2023-01
ASU L 01.00-10/1 2016-03	examination of food; Determination of the nitrogen content of milk according to Kjeldahl and calculation of the crude protein content	SOP-No. 361 2019-12
ASU L 06.00-7 2014-08	Investigation of food – Determination of the crude protein content in meat and meat products – Titrimetric method according to Kjeldahl – Reference method (<i>modification: matrix here also fish</i>)	SOP-No. 409 2019-12
ASU L 15.00-3 2007-12	Determination of nitrogen content and calculation of crude protein content of cereals and legumes	SOP-No. 435 2020-01
ASU L 13.00-5 2012-01	Investigation of food – determination of the acid number and acidity of animal and vegetable fats and oils	SOP-No. 299 2018-05
ASU L 13.00-10 2019-07	Investigation of food – Animal and vegetable fats and oils - Determination of the iodine number	SOP-No. 583 2013-08
ASU L 13.00-37 2018-06	Investigation of food – Determination of the peroxide number in animal and vegetable fats and oils – Iodimetric (visual) endpoint determination	SOP-No. 300 2019-10
IFU 3 Rev. 2017	Titrateable Acidity	SOP-No. 289 2023-01
IFU 30 Rev. 2005	Determination of Formol Number	SOP-No. 289 2023-01
SOP-No. 567 2019-09	Total protein in fruits and vegetables (and their products)	
SOP-No. 659 2023-01	Determination of fat indicators in animal and vegetable fats and oils (automatic titration)	

1.1.9 Determination of ingredients and additives by means of photometric tests in food *

Standard/Date of issue/ procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
IFU 21 Rev.2005	Determination of L-malic acid (enzymatic)	SOP-No. 306 2015-08
IFU 22 Rev.2005	Determination of citric acid (enzymatic)	SOP-No. 306 2015-08
IFU 49 Rev.2005	Determination of Proline	SOP-No. 291 2020-01
IFU 52 Rev.2005	Determination of Alcohol (enzymatic)	SOP-No. 410 2021-03, SOP-No. 290 2015-08
IFU 53 Rev.2005	Determination of Lactic Acid (enzymatic)	SOP-No. 306 2015-08
IFU 54 Rev.2005	Determination of D-Isocitric Acid (enzymatic)	SOP-No.306 2015-08
IFU 55 Rev.2005	Determination of glucose und fructose (enzymatic)	SOP-No. 306 2015-08
IFU 56 Rev.2005	Determination of Sucrose (enzymatic)	SOP-No. 306 2015-08
IFU 62 Rev.2005	D-Sorbitol (enzymatic)	SOP-No.290 2015-08
SOP-No. 410 2021-03	Enzymatic detection of ethanol (Beer, ice cream, fruit preparations)	
ASU L 06.00-8 2017-10	Determination of hydroxyproline content in meat and meat products	SOP-No. 582 2019-10
ASU L 08.00-14 2008-06	Investigation of food – Determination of nitrate and nitrite content in sausage products after enzymatic reduction from nitrate to nitrite – Spectrophotometric method	SOP-No. 127 2007-05
ASU L 02.00-12 2009-06	Determination of foodstuffs - Determination of sucrose and glucose content in milk products and ice-cream - Enzymatic method	SOP-No. 397 2019-12
ASU L 01.00-17 2010-09	Investigation of food – determination of the lactose and galactose content of milk and dairy products	SOP-No. 398 2019-12
ASU L 48.02.07-2 1985-05	Determination of maltose in children's rusks and rusk flour	SOP-No. 434 2019-12

1.1.10 Gravimetric determination of ingredient sin food and feed*

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 287 2013-02	Fat determination from meat and cheese	
SOP-No. 485 2016-06	Determination of water, ash and fat content in coconut milk powder	
SOP-No. 646 2021-05	Total ash and acid-insoluble ash in spices and seasoning ingredients	
ISO 659 2009-07	Oilseeds – Determination of oil content (Modification: <i>grinding, extraction time</i>)	SOP-No. 513 2018-05
ISO 665 2000-09	Oilseeds – Determination of moisture and volatile matter content	SOP-No. 436 2019-12
ISO 24557 2009-10	Pulses – Determination of moisture content – Air oven method	SOP-No. 591 2019-12
UNECE Standard DDP-11 1992	UNECE Standard DDP-11 concerning the marketing and commercial quality control of dried grapes – Annex I: Determination of the moisture content of dried fruit	SOP-No. 241 2010-06
ASU L 00.00-18 1997-01Berichtigung 2002-12	Investigation of food – determination of dietary fibre in food	SOP-No. 351 2021-08
ASU L 01.00-9 2012-01	examination of food; - determination of the fat content in milk; - Gravimetric method (reference method)	SOP-No. 353 2019-12
ASU L 01.00-20 2013-08	Investigation of food – Determination of the fat content of milk and dairy products according to the gravimetric Weibull-Berntrop method	SOP-No. 352 2019-12
ASU L 01.00-27 1988-12	Study of food - determination of the dry matter content of milk and cream (cream); (Reference method)	SOP-No. 346 2019-12
ASU L 01.00-77 2002-05	Investigation of food – determination of the total ash of milk and dairy products	SOP-No. 355 2019-12
ASU L 02.06-E(EG) und 1(EG) bis 8(EG) 1981-01	Methods of analysis relating to the composition of certain partially or completely dried, preserved milk products Method 2: Determination of water content	SOP-No. 563 2019-07
ASU L06.00-3 2014-08	Investigation of foodstuffs - Determination of water content in meat and meat products - Gravimetric method - Reference method (Modification: <i>Matrix here also fish</i>)	SOP-No. 244 2019-12
ASU L 06.00-04 2017-10	Investigation of foodstuffs – determination of ashes in meat and meat products (Modification: <i>Matrix here also fish</i>)	SOP-No. 354 2019-11
ASU L 06.00-06 2014-08	Investigation of foodstuffs – determination of the total fat content in meat and meat products - Gravimetric	SOP-No. 350 2021-01

	method according to Weibull –Stoldt- reference method (modification: <i>matrix here also fish</i>)	
ASU L15.00-07 2012-01	Investigation of food – determination of the ash content in cereals, legumes and by-products by combustion	SOP-No. 539 2018-07
ASU L 16.01-01 2008-12	Determination of moisture content in cereal flour	SOP-No. 589 2019-12
ASU L 16.00-05 2017-10	Investigation of foodstuffs – determination of the total fat content in cereal products after acid digestion by extraction and gravimetry	SOP-No. 564 2019-09
ASU L 31.00-04 1997-01	Investigation of food – determination of ash in fruit and vegetable juices	SOP-No. 576 2019-10
ASU L 31.00-18 1997-09	Investigation of food – Determination of the total dry matter in fruit and vegetable juices – Gravimetric method with mass loss during drying (Modification: 1. <i>drying parameters</i> 2. <i>Weighing</i> 3. <i>Matrix here also purees, puree and juice concentrates, dried fruits;</i>)	SOP-No. 571 2019-09
ASU L 39.00- E(EG) und 1(EG) bis 10(EG) 1981-01	Methods of analysis for determining the composition of some sugars intended for human consumption. Method 1: Determination of mass loss due to drying	SOP-No. 563 2019-07
ASU L 44.00-4 1985-12	Investigation of food - Determination of the total fat content in chocolate (Modification: <i>hydrolysis, extraction</i>)	SOP-0566 2019-11
DGF B-II 3 1987	Water and volatile constituents in feeding stuffs	
IFU 36 2005	Determination of sulphate	SOP-No. 274 2018-01
IFU 60 2005	Determination of centrifugable pulp in fruit juices (Modification: <i>vessels, centrifugation, determination of measured values</i>)	SOP-No. 542 2018-09
VDLUFA III 3.1 1976	Determination of moisture in feeding stuffs and cereals	SOP-No. 243 2010-07
SOP-No. 585 2019-11	Determination of dry matter in food	
SOP-No. 586 2019-11	Determination of total ash in food	

SOP-No. 587 2019-11	Determination of the total fat content in food	
SOP-No. 588 2019-11	Determination of whole protein in food	
SOP-No. 651 2022-01	Determination of the water and ash content in various food matrices (prepASH)	

1.1.11 Refractometric examinations in food

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
IFU 8 Rev. 2017	Determination of Soluble Solids (indirect method by refractometry)	SOP-No. 288 2019-10
EU-Durchführungs-VO Nr. 974/2014	Refractometric determination of soluble dry residue	SOP-No. 562 2021-08

1.1.12 Further physico-chemical investigations in food

1.1.12.1 Electrode measurements

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 31.00-2 1997-01	Investigation of food - Determination of the pH value of fruit and vegetable juices	SOP-No. 203 2022-01

1.1.12.2 Viscosimetry

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
IFU 1A Rev. 2005	Relative Density (Method using density meter)	SOP-No. 288 2019-10
SOP-No. 544 2018-09	Determination of viscosity according to Bostwick	

1.1.12.3 Temperature

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN 38404 Teil 4 1976:12	German standard methods for water, wastewater and sludge analysis Physical and physico-chemical parameters (group C) Determination of temperature (C4)	

1.1.13 Determination of ingredients in food products by HPLC/IC

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 26.00-1 2018-10	Investigation of food – Determination of nitrate content in vegetable products – HPLC/IC method (<i>modification: pre-column omitted</i>)	SOP-No. 570 2019-09

1.1.14 Determination of ingredients in food by HPLC/DAD

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 473 2022-01	Determination of oligosaccharides in milk and milk powders by HPLC-FLD	
SOP-No. 669 2022-09	Determination of hydrocyanic acid in flaxseed, almonds and stone fruit products by HPLC-FLD	

1.2 Determination of ingredients and additives as well as allergens and drug residues by ELISA in food*

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
Veratox for Gliadin R5 (Quantitativ), Produkt 8510 V-GliadinR5_0114_ENSP	Immunological determination of gliadin in food by ELISA (test kit) (modification: <i>wavelength 450 nm, colorless sulfuric acid, shortening of the incubation time to 9 min</i>)	SOP-No. 172 2015-04
Neomycin Artikel 5111NEO Stand: Oktober 7,2011	Immunological determination of neomycin in food by ELISA (test kit)	SOP-No. 219 2016-10
Artikel 5111GEN [17]04.20 Stand: 23. April 2020	Immunological determination of gentamicin in food by ELISA (test kit)	SOP-No. 220 2016-10
Streptomycin Artikel 5111STREP [17]03.20 Stand: 23. April 2020	Immunological determination of streptomycin in food by ELISA (test kit)	SOP-No. 226 2019-10
Veratox for mustard (Quantitativ) Artikel 8400 V-Mustard_ES_0415	Immunological determination of the senfallergen content in food by means of ELISA (test kit) (Modification: <i>wavelength 450 nm, colorless sulfuric acid, shortening of the incubation time to 6 min</i>)	SOP-No. 319 2018-08
Veratox for Egg allergen (Quantitative) Artikel 8450 V-Egg_ES_0518	Immunological determination of the chicken egg allergen content in food by elisa (test kit) (modification: <i>wavelength 450 nm, colorless sulfuric acid, shortening of the incubation time to 8 min</i>)	SOP-No. 401 2020-09
Veratox für Milk Allergen (Quantitative) Artikel 8470 V-TotalMilk_0418	Immunological determination of the milk allergen content in food by means of ELISA (test kit) (Modification: <i>wavelength 450 nm, colorless sulfuric acid, shortening of the incubation time to 9 min</i>)	SOP-No. 488 2019-02
Veratox für Milk allergen (Quantitative) Artikel 8470 V-TotalMilk_0418	Sandwich ELISA for the quantitative determination of gliadins and related prolamins in food	SOP-No. 521 2018-12

1.3 Microbiological investigations

1.3.1 Determination and detection of bacteria, yeasts and moulds by means of cultural microbiological investigations in food*

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 00.00-20 2021-07	Investigation of foodstuffs - Horizontal method for the detection, counting and serotyping of Salmonella - Part 1: Detection of Salmonella spp. (adoption of the standard of the same name DIN EN ISO 6579-1, July 2017)	SOP-No. 577 2019-10
ASU L 00.00-22 2018-03	Investigation of foodstuffs - Horizontal method for the detection and counting of - Listeria monocytogenes and Listeria spp. - Part 2: Counting method (adoption of the standard of the same name DIN EN ISO 11290-2, September 2017)	SOP-No. 574 2019-10
ASU L 00.00-25 2011-01	Determination of presumptive Bacillus cereus in food - Colony counting method	SOP-No. 596 2019-12
ASU L 00.00-32/1 2018-03	Investigation of foodstuffs - Horizontal method for the detection and counting of - Listeria monocytogenes and Listeria spp. - Part 1: Detection method (adoption of the standard of the same name DIN EN ISO 11290-1, September 2017)	SOP-No. 575 2019-10
ASU L 00.00-55 2004-12	Method for the counting of coagulase-positive staphylococci (Staphylococcus aureus and other species) in food, Part 1: Method with Baird Parker Agar (according to DIN EN ISO 6888-1)	SOP-No. 594 2020-12
ASU L 00.00-57 2006-12	Method for counting Clostridium perfringens in food - Colony counting method (according to DIN EN ISO 7937)	
ASU L 00.00-88/1 2023-04	Investigation of food – Horizontal method the counting of microorganisms -Part 1: Colony counting at 30 °C by means of cast plate method (according to DIN EN ISO 4833-1:2013-12)	SOP-No. 606 2020-04
ASU L 00.00-88/2 2023-04	Horizontal method the counting of microorganisms - Part 2: Colony counting at 30 °C by means of surface method (according to DIN EN ISO 4833-2:2014-05)	SOP-No. 607 2020-04
ASU L 00.00-91 2006-12	Investigation of food – Horizontal method for the detection of Shigella spp. in food	
ASU L 00.00-107 2007-04	Horizontal method for the detection and counting of Campylobacter spp. in food - Detection method (according to DIN EN ISO 10272-1)	

ASU L 00.00-132/2 2021-03	Investigation of food – Horizontal method for counting β -glucuronidase-positive E. coli in food - Part 2: Colony counting method with 5-bromine-4-chloro-3-indole- β -D-glucuronide (according to DIN ISO 16649-2:2009-12)	SOP-No. 579 2019-10
ASU L 00.00-133/1 2010-09	Investigation of food - Horizontal method for the detection and counting of Enterobacteriaceae in food - Part 1: MPN technique (according to DIN ISO 21528-1)	
ASU L 00.00-133/2 2019-12	Investigation of food – Horizontal method for the detection and counting of Enterobacteriaceae in food – Part 2: Colony counting technique (according to DIN ISO 21528-2:2017-09)	SOP-No. 593 2019-12
ASU L 01.00-3 1987-03	Investigation of food – determination of coliform germs in milk, dairy products, butter, cheese and ice cream; Process with a strong culture medium	SOP-No. 580 2019-10
ASU L 01.00-25 1997-09	Investigation of foodstuffs - Determination of Escherichia coli in milk, dairy products, butter, cheese and ice cream - Method with liquid nutrient medium	
ASU L 01.00-37 1991-12	examination of food; determination of the number of yeasts and molds in milk and dairy products; Reference methods (Modification: <i>here also examination of other foods; Spiral plate</i>)	SOP-No. 595 2019-12
ASU L 02.07-2 1987-03	Investigation of foodstuffs – determination of coagulase-positive staphylococci in dried milk products and processed cheese, selective enrichment process	
ASU L 06.00-25 1987-11	Bestimmung von Enterobacteriaceae in Fleisch – Tropfplattenverfahren (nach DIN 10164)	
ASU L 06.00-32 1992-06t	Investigation of foodstuffs - determination of Enterococcus faecalis and Enterococcus faecium in meat and meat products; Spatula method (reference method) (according to DIN 10106)	
ASU L 06.00-35 1992-12	Determination of aerobically growing lactic acid bacteria in meat and meat products (according to DIN 10109)	
ASU L 06.00-39 2017-10	Determination of mesophilic sulfite-reducing clostridia in meat and meat products (According to DIN 10103)	
ASU L 06.00-43 2011-06	Counting of Pseudomonas spp. In meat and meat products (according to DIN 13720)	
VDLUFA VI M 7.13 1996	Determination of thermotolerant (thermodrug-resistant) microorganisms (deviation: <i>nutrient medium Columbia blood agar, anaerobic incubation at 37°C for the detection of thermo-resistant streptococci</i>)	
VDLUFA VI M 7.23.2 2010	Determination of acetic acid bacteria, colony counting method with universal beer agar	

ISO/TS 22964:2017-04	Qualitative detection of Cronobacter spp. (Enterobacter sakazakii) in milk and dairy products	SOP-No. 280 2011-09
IFU Method No. 3, II., 1996-04	Quantitative determination of osmotolerant yeasts in food (original title: Osmophilic-osmoduric yeasts typs – "Osmotolerants" count) (deviation: <i>additional detection of moulds</i>)	SOP-No. 260 2011-06
IFU Method No. 4, III., 1996-04	Method for the detection of spores of heat-resistant molds	
IFU Method No. 4, IV., 1996-04	Method for the detection of xerophilic molds	
IFU Method No.12 2019-04	Method on the Detection of taint producing Alicyclobacillus in Fruit Juices	SOP-No. 464 2020-04
SOP-0489 2016-10	Qualitative detection of methicillin-resistant Staphylococcus aureus (MRSA) in food; Enrichment in Müller-Hinton and selective tryptone-soy broth and chromogenic MRSA selective agar	
SOP-0494 2016-08	Screening for broad-spectrum β -lactamases (ESBL)-forming Enterobacteriaceae in food	

1.3.2 Hygrometric determinations

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ISO 21807 2004-09	Microbiology of food and feed - Horizontal method for determining water activity	SOP-No. 404 2014-03

1.4 Molecular biological investigations

1.4.1 Detection of specific DNA sequences and determination of animal species by means of real-time PCR in food and feed, tobacco and tobacco products*

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 00.00-105 2014-02	Investigation of food – Methods for the detection of genetically modified organisms and their products- Quantitative methods based on nucleic acids	
ASU L 00.00-122 2008-06	Food testing – detection of a specific DNA sequence commonly used in genetically modified organisms (GMOs) from the cauliflower mosaic virus (CaMV 35S promoter, P35S) and from Agrobacterium tumefaciens (T-nos) in food – screening methods (Modification: <i>Matrix here also feed and tobacco</i>)	SOP-No. 162 2016-04
ASU L 00.00-148 2014-02	Detection of a DNA sequence of the FMV promoter (pFMV) in food by means of real-time PCR (element-specific method)	SOP-No. 431 2018-01

ASU L 00.00-169 2019-07	Investigation of food – detection and determination of peanuts in food using real-time PCR	
ASU L 08.00-59 2013-01	Detection and determination of mustard (<i>Sinapis alba</i>) and soy (<i>Glycine max</i>) in boiled sausages using real-time PCR	SOP-No. 433 2019-08
ASU L 10.00-12 2021-07	Investigation of food-fish species determination in raw fish and fish products by sequence analysis of cytochrome b sequences	SOP-No. 432 2016-09
ASU L 16.04.03-1 2012-07	Preparation of DNA from native corn starch	SOP-No. 428 2015-04
ASU L 18.00-21 2014-08	Investigation of food – detection and determination of Brazil nut (<i>Bertholletia excelsa</i>) in rice and wheat biscuits as well as in sauce powder using real-time PCR process principles	SOP-No. 531 2018-02
ASU L 23.04/03-1 2010-09	Construct-specific real-time PCR method for the detection of genetic modification in flaxseed and flaxseed products	SOP-No. 298 2012-07
SOP Nr. 164 2019-05	Detection of a specific DNA sequence from celery (<i>Apium graveolens</i>) in food using real-time PCR (according to §64 LFGB method design)	
CRLVL04/05VR/VP 2007-04	Event-specific detection of genetically modified Mais MIR604 using real-time PCR	SOP-No. 165 2008-11
CRLVL29/04VR/VP 2005-01	Event-specific detection of genetically modified maize GA21 using real-time PCR	SOP-No. 166 2008-11
CRLVL03/05VR/VP 2007-06	Event-specific detection of genetically modified maize DAS-59122-7 using real-time PCR	SOP-No. 167 2008-11
SOP-No. 168 2008-11	Event-specific detection of genetically modified maize NK603 using real-time PCR	
SOP-No. 169 2008-11	Event-specific detection of genetically modified soy Roundup Ready using real-time PCR	
CRLVL25/04VR 2009-06	Event-specific detection of genetically modified Mais MON810 using real-time PCR	SOP-No. 170 2008-11
CRLVL02/04VR/VP 2015-02	Event-specific detection of genetically modified Mais TC1507 using real-time PCR	SOP-No. 171 2008-11
ASU L 00.00-31 2001-07	Method for extracting DNA from food, feed and tobacco (CTAB method)	SOP-No. 173 2018-05
ASU L 15.05-1 2002-05	Method for extracting DNA from food and feed (Wizard method)	SOP-No. 174 2016-10
SOP-No. 175 2019-10	Fluorimetric DNA quantification using Picogreen reagents	

SOP-No. 189 2008-11	Event-specific detection of genetically modified maize Bt11 using real-time PCR	
SOP-No. 190 2008-11	Event-specific detection of genetically modified maize Bt176 using real-time PCR	
CRLVL01/04VR/VP 2005-02	Event-specific detection of genetically modified MON863 by means of real-time PCR	SOP-No. 191 2008-11
ASU L 08.00-58(V) 2011-06	Detection of a specific DNA sequence from lupine in food using real-time PCR	SOP-No. 192 2019-08
SOP-No. 193 2017-04	GMO screening for the detection of the construct P35: BAR in genetically modified rice using real-time PCR	
SOP-No. 204 2009-02	Event-specific detection of genetically modified maize T25 using real-time PCR	
SOP-No. 205 2019-06	Detection of a specific DNA sequence from peanut in food using real-time PCR	
CRL VL05/06VP 2008-02	Detection of genetically modified soy MON89788 by real-time PCR	SOP-No. 212 2019-05
ASU L 00.00-125 2008-12	GMO screening for the detection of the CTP2-CP4-EPSPS sequence in food using real-time PCR	SOP-No. 213 2019-10
SOP-No. 216 2009-08	GMO screening for the detection of the pat and bar gene sequence in genetically modified oilseed rape using real-time PCR	
CRL VL 16/05VP 2005	Event-specific detection of genetically modified maize MON88017 using real-time PCR	SOP-No. 221 2009-09
ASU L 44.00-8 2010-01	Detection of a specific DNA sequence from hazelnut in food using real-time PCR	SOP-No. 222 2018-09
SOP-No. 228 2009-11	Detection of a specific DNA sequence found in plants in food using real-time PCR	
SOP-No. 316 2017-03	Qualitative detection of animal species in food	
SOP-No. 400 2014-01	Detection of a specific DNA sequence from cashew in food using real-time PCR	
SOP-No. 402 2014-01	Detection of a specific DNA sequence from almonds in food using real-time PCR	
SOP-No. 403 2017-02	Detection of a specific DNA sequence from sesame in food using real-time PCR	
SOP-No. 406 2014-03	Animal species quantification in food	
SOP-No. 429 2015-03	RT-PCR for amplification of a DNA sequence of the cryIAb/CryIAc gene in rice	
SOP-No. 430 2015-03	Detection of a specific DNA sequence from walnut in food using real-time PCR	

EURL-VL-02/11VP 2013-05	Event-specific detection of genetically modified soy MON87708 using real-time PCR (according to EURL-VL-02/11VP)	SOP-No. 475 2016-08
CRLVL07/09VP 2012-01	Event-specific detection of genetically modified soy MON87769 in food using real-time PCR	SOP-No. 476 2016-08
CRLVL01/09VP 2011-09	Event-specific detection of genetically modified soy CV127 in food using real-time PCR	SOP-No. 477 2016-08
CRLVL07/07VP 2009-01	Event-specific detection of genetically modified soy DP-305423-1 in food using real-time PCR	SOP-No. 478 2016-08
ASU L 00.00-116 2007-12	GMO screening for the detection of DNA of the promoter from the cauliflower mosaic virus and the terminator from <i>Agrobacterium tumefaciens</i> by means of real-time PCR	SOP-No. 479 2016-04
SOP-No. 491 2016-08	Detection of a specific DNA sequence from pecan nut in food using real-time PCR	
SOP-No. 492 2016-08	Detection of a specific DNA sequence from macadamia in food using real-time PCR	
SOP-No. 493 2016-08	Detection of a specific DNA sequence from pistachio in food using real-time PCR	
SOP-No. 530 2018-02	Detection of a specific DNA sequence from fish in food using real-time PCR	
SOP-No. 618 2020-06	GMO screening for the detection of otp/mepsps in cotton using real-time PCR	
EURL-VL-10/10VP 2012-11	Event-specific detection of genetically modified maize DAS-40278-9 in food and feed using real-time PCR	SOP-No. 535 2018-05
IWA 32 2019-04	Screening of genetically modified organisms (GMOs) in cotton and textiles	

1.4.2 Determination of bacteria and viruses in food using real-time PCR**

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 00.00-98 2007-04	Investigation of food – Qualitative detection of salmonella in food – Real-time PCR method	SOP-No. 426 2019-02
ASU L 00.00-147/2 (V) 2022-04	Food testing – Horizontal method for the determination of hepatitis A virus and norovirus in food – Part 2: Method for qualitative detection – Real-time RT-PCR (Restriction: <i>here only detection of norovirus</i>) (Modification: <i>MS2 phage as process control</i>)	SOP-No. 422 2018-03

ASU L 06.32-01 2013-08	Investigation of food – Detection of Campylobacter spp. in minced meat – Real-time PCR-Verfahren	SOP-No. 421 2017-03
SOP-No. 396 2023-02	Investigation of food – Qualitative detection of Listeria monocytogenes by means of real-time PCR	
SOP-No. 422 2018-03	Qualitative detection of hepatitis A on soft fruit using real-time RT-PCR	
SOP-No. 423 2020-07	Investigation of food – Qualitative detection of Listeria spp. by means of real-time PCR	
SOP-No. 425 2017-02	Qualitative detection of Cronobacter spp. in milk and dairy products using real-time PCR	
SOP-No. 427 2022-10	Qualitative detection of Alicyclobacillus spp. In fruit juices and fruit concentrates using real-time PCR	
SOP-No. 444 2023-02	Investigation in food – Qualitative detection of Shigatoxin-producing Escheria coli (STEC) & enterohemorrhagic Escheria coli (EHEC) using real-time PCR	
SOP-No. 490 2016-08	Qualitative detection of Shigella spp. in milk and dairy products using real-time PCR	

1.5 Sensory tests in food

1.5.1 Simply descriptive sensory examinations of food*

Norm/Ausgabedatum Hausverfahren	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU L 00.90-6 2015-06	Examination of foodstuffs – Sensory test methods - Simple descriptive test	SOP-No. 302 2012-09
ASU L 00.90-7 2007-12	Examination of food – Sensory test methods – Triangular test	
ASU L 00.90-8 2007-12	Examination of foodstuffs – Sensory test methods – Comparative test in pairs	
ASU L 00.90-14 2004-12	Examination of foodstuffs – Sensory test methods – Descriptive test with subsequent quality assessment	

1.5.2 Special sensory testing of olive oil

Norm/Ausgabedatum Hausverfahren	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
VO (EG) Nr. 640/2008 2008-07	Characteristics of olive oils and olive-pomace oils and the methods for their determination: Organoleptic testing of virgin olive oils	

1.6 Food sampling

Norm/Ausgabedatum Hausverfahren	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
VO (EG) Nr. 401/2006 2014-07	Commission Regulation laying down the methods of sampling and analysis for the official control of the mycotoxin content of foodstuffs (Restriction: <i>here only sampling</i>)	
SOP-No. 307 2013-08	Sampling for microbiological analysis of food	
Richtlinie 2002/63/EG 2002-07	Establishing Community methods of sampling for the official control of pesticide residues in and on products of plant and animal origin and repealing Directive 79/700/EEC	
VO (EG) Nr. 1882/2006 2006-12	Establishment of sampling methods and methods of analysis for the official control of the nitrate content of certain foodstuffs (Restriction: <i>here only sampling</i>)	
VO (EG) Nr. 1883/2006 2006-12	Establishment of methods of sampling and analysis for the official control of the levels of dioxins and dioxin-like PCBs in certain foodstuffs (Restriction: <i>here only sampling</i>)	
VO (EG) Nr. 333/2007 2007-03	Establishment of sampling methods and methods of analysis for the official control of the content of lead, cadmium, mercury, inorganic tin, 3-MCPD and benzo(a)pyrene in foodstuffs (Restriction: <i>here only sampling</i>)	
DIN CEN/TS 15568 2007-03	Food – Methods for the detection of genetically modified organisms and their products – Sampling strategies (Restriction: <i>here only sampling</i>)	

1.7 Sampling of feeding stuffs

Norm/Ausgabedatum Hausverfahren	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
VO (EG) 152/2009 Anhang 1 2014-07	Feed sampling	
VO (EG) 691/2013 2013-07	Amendment of Regulation (EC) No 152/2009 as regards sampling methods and methods of analysis (Modification: <i>here also for matrix food</i>) (Restriction: <i>here only sampling</i>)	

1.8 Sample preparation of food and feed

Norm/Ausgabedatum Hausverfahren	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DGF C-VI 11d 1998	Fatty acid methyl ester (alkaline transesterification)	SOP-No. 512 2021-05
ASU L 00.00-19/1 2015-06	Determination of element traces in food - pressure digestion (modification: <i>matrix here also feed</i>)	SOP-No. 53 2021-09

2 Investigation of consumer goods and textiles**2.1 Physical, physico-chemical and chemical investigations****2.1.1 Determination of residues and contaminants by liquid chromatography and mass-selective detection (LC-MS-MS) in consumer goods and textiles ****

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 214 2020-04	Determination of nicotine in textiles by LC-MS-MS	
SOP-No. 340 2013-08	Determination of quaternary ammonium compounds (QAV) in consumer goods by LC-MS-MS	
SOP-No. 487 2023-03	Determination of PFAS in consumer goods by LC-MS-MS	
SOP-No. 517 2017-03	Determination of acrylic acid in hygiene articles by HPLC-DAD	
SOP-No. 543 2022-11	Determination of acrylamide in dry, heated foods, packaging, hygiene products and paper using LC-MSMS <i>Restriction: here only packaging, hygiene products and paper</i>	
SOP-No. 625 2020-10	Determination of isothiazolins in consumer goods, cosmetics, hygiene articles, aqueous extracts and hot melts by LC-MS-MS	

2.1.2 Determination of chromium (VI) in consumer goods and textiles by IC-ICP-MS **

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 71-3 2021-06	Safety of toys - Part 3: Migration of certain elements (Restriction: <i>here only analysis of chromium (VI)</i>) (Modification: <i>Matrix here also pigments</i>)	SOP-No. 438 2021-08
SOP-No. 304 2021-08	Determination of extractable chromium (VI) in textiles using IC-ICP-MS after extraction with acidic synthetic welding solution	

2.1.3 Determination of residues and contaminants in consumer goods by gas chromatography with standard detectors (GC-FID)

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 261 2016-09	Determination of MOSH and MOAH in food and consumer goods by GC-FID (Restriction: here only examination of consumer goods)	
SOP-No.418 2020-06	Determination of mineral oil (MOSH & MOAH) in food, feed and packaging materials using online coupled LC-GC-FID (Deviation: <i>here only for packaging materials</i>)	

2.1.4 Determination of residues and contaminants in consumer goods by gas chromatography with mass-selective detectors (GC-ICP-MS. GC-MSD) **

Standard / Date of issue / in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 71-3 2019-08	Safety of toys – Part 3: Migration of certain elements (restriction: <i>here only analysis of organotin compounds</i>)	SOP-No.20 2022-05
SOP-No. 31 2020-01	Determination of phthalic acid esters in consumer goods and hygiene products by GC-MSD	
SOP-No. 42 2016-12	Determination of flame retardants in house dust, sediments, fish, water, food, feed, electronic waste and consumer goods (Deviation: <i>here only consumer goods</i>)	
SOP-No. 55 2019-10	Determination of alkylphenols, alkylphenol ethoxylates and bisphenol A in consumer goods by GC-MSD	
SOP-No. 121 2006-04	Determination of epoxidized soybean oil (ESBO) in food and consumer goods (Deviation: <i>here only consumer goods</i>)	
SOP-No. 128 2007-05	Determination of aromatic amines in materials and articles by GC-MSD (according to WP 89.1. Ökotex 100, EWG 76/769/EC)	
SOP-No. 159 2018-12	Determination of dimethylformamide and dimethylacetamide in consumer goods by HS-GC-MSD	
SOP-No. 230 2021-07	Determination of the mass concentration of PCDD/PCDF and dioxin-like PCBs in consumer goods and hygiene articles by GC-MSMS	
SOP-No. 293 2023-06	Determination of phenol and chlorophenols in consumer goods by GC-MSD	
SOP-No. 341 2019-11	Determination of EC and EPA PAHs in consumer goods by GC-MSD	
SOP-No. 342 2013-08	Determination of pesticides in consumer goods and environmental samples using GC-MSD (QuEChERS) (Restriction: <i>here only examination of consumer goods</i>)	
SOP-No. 117 2020-06	Determination of pesticides in consumer goods and environmental samples using GC-MSD (QuEChERS) (Deviation: <i>here only consumer goods</i>)	
SOP-No. 548 2019-07	Determination of EC and EPA PAHs in adhesives, hot melt, silicone and acrylic samples using GC-MSD	
SOP-No. 550 2019-01	Determination of high levels (0.1%-1%) of alkylphenols, ethoxylates and bisphenols in consumer goods by GC-MSD	
SOP-No. 558 2019-02	Determination of rosin from consumer goods by GC-MSD	
SOP-No. 597 2022-12	Determination of antioxidants from vegetable oils, meat and feed by GC-MSD	
SOP-No. 620 2021-11	Determination of allergenic fragrances in consumer goods by GC-MSD	
SOP-No. 628 2020-12	Determination of aldehydes in consumer goods by GC-MSD	

SOP-No. 652 2021-11	Determination of ethylene glycol and propylene glycol in consumer articles by GC-MSD	
ISO 787-28 2019-05	General methods of tests for pigments and extenders – Part 28: Determination of total content of polychlorinated biphenyls (PCB) by dissolution, cleanup and GC-MS	SOP-No. 560 2023-05

2.1.5 Determination of elements in consumer goods and textiles by means of inductively coupled plasma mass spectrometry (ICP-MS) **

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ISO 7086-1 2000-03	Glass containers for foodstuffs – Discharge of lead and cadmium – Part 1: Test methods (Modification: <i>here also examination of plastic vessels</i>)	SOP-No. 208 2019-01
DIN EN ISO 17294-2 2017-01	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes (Modification: <i>Analytes here also Ta, Ti; Investigation also of digestion solutions of consumer goods incl. pressure digestion as well as heavy metals in textiles</i>)	SOP-No. 79 2021-11
DIN EN 71-3 2021-06	Safety of toys – Part 3: Migration of certain elements (modification: <i>matrix here also pigments</i>)	SOP-No. 318 2021-08
SOP-No. 272 2020-06	Determination of extractable metals in consumer goods with isotonic saline solution by ICP-MS	
Resolution AP (89)1 1989-09	Resolution AP (89)1 on the use of colorants in plastic materials coming into contact with food (Modification: <i>Analysis here using ICP-MS</i>)	SOP-No. 273 2020-06
DIN EN 16711-2 2016-02	Textiles – Determination of metal content – Part 2: Determination of extractable metals with acidic synthetic welding solution using ICP-MS (Modification: <i>Analytes here also Mn, Se, Sn and Zn</i>)	SOP-No. 516 2020-06

2.1.6 Photometric determination of contaminants in consumer goods and textiles*

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU B 82.02-1 1985-06	investigation of consumer goods; Determination of formaldehyde release from textile Consumer goods (modification: <i>analysis here using UV/VIS</i>)	
SOP-No. 13 ECB 2014-06	Determination of free and hydrolyzed formaldehyde in solid paper-based material by spectrophotometry	

2.1.7 Gravimetric investigations of consumer goods

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU B 80.30-1(EG) 1998-01	Investigation of consumer goods – Basic rules for determining migration – Annex	
ASU B 80.30-4 2008-10	Investigation of consumer goods – plastics – Part 1: Guidance for the selection of test conditions and test methods for the overall migration	
ASU B 80.30-6 2008-10	Investigation of consumer goods – plastics – Part 3: Test methods for total migration into aqueous test foods by total immersion	
ASU B 80.30-8 2008-10	Investigation of consumer goods – plastics – Part 5: Test methods for total migration into aqueous test foods by cell	
ASU B 80.30-10 2008-10	Investigation of consumer goods – plastics – Part 7: Test methods for total migration into aqueous test foods with a bag	
ASU B 80.30-12 2008-10	Investigation of consumer goods – plastics – Part 9: Test methods for total migration into aqueous test foods by filling the article	
ASU B 80.30-17 2008-10	Investigation of consumer goods – plastics Part 14: Test methods for "replacement tests" for total migration from plastics intended for contact with fatty foods using the test media iso-octane and 95% ethanol	
ASU B 80.30-18 2008-10	Investigation of consumer goods – plastics – Part 15: Alternative test methods for the determination of migration into fatty test foods by rapid extraction in iso-octane and/or 95% ethanol	
ASU B 80.30-19 2008-10	Investigation of consumer products – Substances in plastics subject to restrictions - Part 1: Guidance on test methods for the specific migration of substances from plastics into food	

	and test foods, the determination of Substanzen in plastics and the selection of contact conditions with test foods	
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2.1.8 Simple visual investigations to determine the color fidelity of consumer goods*

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU B 82.02-13 2011-12	Determination of the colour fidelity of articles of daily use Part 2: Test with welding simulant	SOP-No. 176 2022-07
ASU B 82.92-3 2011-12	Determination of the colourability of articles of daily use - Part 1: Test with saliva simulant	SOP-No. 176 2022-07
SOP-No. 546 2019-01	Beilstein test	

2.1.9 Determination of PCDD/PCDF and dioxin-like PCBs using high-resolution gas chromatography/high-resolution massspectrometry (HRGC-HRMS)

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 230 2021-11	Determination of the mass concentration of PCDD/PCDF and dioxin-like PCBs in consumer and hygiene articles	

2.2 Determination and detection of bacteria by means of cultural microbiological investigations on furnishings and consumer goods in the food sector *

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
ASU B 80.00-1 1998-01	Investigation of consumer goods determination of the surface germ content on furnishing and consumer goods in the food sector Part 1: Quantitative swab method	SOP-No. 262 2011-05
ASU B 80.00-2 1998-01	Investigation of consumer goods-Determination of the surface germ content on furnishing and consumer goods in the food sector – Part 2: Semi-quantitative swabmethod	SOP-No. 262 2011-05
ASU B 80.00-3 1998-01	Investigation of consumer goods-Determination of the surface germ content on furnishings and commodities in the food sector – Part 3: Semi-quantitative method with nutrient-coated extraction methods, knock-off methods	SOP-No. 262 2011-05
ASU B 80.56-5 2008-10	Paper and cardboard intended for contact with food – Determination of the transition of antimicrobial components (according to DIN EN 1104)	SOP-No. 604 2020-04
Ph. Eur. 2.6.12 8. Ausgabe	Microbiological testing of non-sterile products: counting of reproducible microorganisms	SOP-No. 609 2020-04

Ph. Eur. 2.6.13 8. Ausgabe	Microbiological testing of non-sterile products: detection of specified microorganisms	SOP-No. 610 2020-04
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2.3 Special sensory testing of the smell and taste of paper, cardboard and consumer goods *

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 1230-1 2010-02	Paper and cardboard intended for contact with food – Sensory analysis Part 1: Odour	
DIN EN 1230-2 2010-02	Paper and cardboard intended for contact with food- Sensory analysis Part 2: Taste transfer <i>Restriction: here only verification by means of triangle test)</i>	
ASU B80.00-4 2008-10	Examination of consumer goods – Sensory testing – Testing of packaging materials and packaging materials for food <i>(Restriction: here only verification by means of triangle test)</i>	

3 Examination of cosmetics

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 452 2015-03	Determination of polysilicon-15 in cosmetics by HPLC	Will no longer be offered

4 Investigation of chemical products

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 315 2013-01	Determination of acrylic acid and residual monomers from superabsorbents according to EDANA means HPLC-UV-VIS	

5 Investigation of water**5.1 Physical, physico-chemical, chemical investigations****5.1.1 Determination of organic and metal-organic compounds by gas chromatography and mass-selective detection (GC-MSD, GC-ICP-MS) ****

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 5 2019-03	Determination of organo-lead compounds (trimethyl lead) in water	
SOP-No. 85 2018-12	Determination of chlorobenzenes in water by GC-MSD	
SOP-No. 103 2020-07	Determination of 16 polycyclic aromatic hydrocarbons (PAH9 in drinking water, surface water and groundwater)	
SOP-No. 154 2020-05	Determination of phthalates in water by GC-MSD	
SOP-No. 155 2018-05	Determination of chlorophenols in water with acetylation	
SOP-No. 156 2019-02	Determination of alkylphenols, alkylphenol ethoxylates and bisphenols in water by GC-MSD	
SOP-No. 667 2022-08	Determination of 1,3-dichloropropane-2-ol and 3-monochloropropane-1,2-diol from cold water extracts by GC-MSD	
DIN EN ISO 17353 (F 13) 2005-11	Water quality – Determination of selected organotin compounds – Method using gas chromatography (Modification: <i>Analysis here using ICP-MS</i>)	SOP-No. 2 2020-05

5.1.2 Determination of elements by means of ICP-MS

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
DIN EN ISO 17294-2 2017-01	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes (Modification: <i>Analytes here also Ta, Ti</i>)	SOP-No. 15 2023-05

5.1.3 Further chromatographic investigations

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN ISO 10304-1 2009-07	Water quality – Determination of dissolved anions by liquid ion chromatography - Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulphate	SOP-No.37 2020-02
SOP-No. 234 2009-11	Determination of glyphosate, AMPA and glufosinate in water by LC-MS-MS	
SOP-No. 551 2019-02	Determination of elemental sulfur from liquid matrices by GC-ICP-MS	

6 Investigation of sediments, soil and sludges**6.1 Sample preparation**

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
DIN EN 16174 2012-11	Sludge, treated biowaste and soil - Digestion of elements with aqua regia (Restriction: <i>here only application of method A</i>)	SOP-No. 439 2020-06

6.2 Physical, physico-chemical and chemical investigations**6.2.1 Determination of organic compounds by liquid chromatography (LC-MS-MS) ****

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in-house SOP
SOP-No. 233 2009-11	Determination of glyphosate, AMPA and glufosinate in sediments by LC-MS-MS	

6.2.2 Determination of organic and metal-organic compounds by gas chromatography and mass-selective detection (GC-MSD and GC-ICP-MS) **

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
ISO 23161 2019-04	Soil quality – Determination of selected organotin compounds – Gas chromatographic method	SOP-No. 1 2022-07
SOP-No.1 2022-07	Determination of organotin compounds in sediments by GC-ICP-MS	
SOP-No.4 2019-04	Determination of organo-lead compounds (trimethyl lead) in soils, sediments and sludges	
SOP-No.20 2022-05	Determination of organotin compounds in consumer goods by means of GC-ICP-MS	
DIN EN ISO 18287 2006-05	Soil quality determination of polycyclic aromatic hydrocarbons (PAHs) gas chromatographic method with detection by mass spectrometry (GC-MS9 (ISO 18287:2006))	SOP-No. 6 2019-10
SOP-No. 117 2020-06	Determination of pesticides in consumer goods and environmental samples using GC-MSD (QuEChERS) <i>(Here for sediments and soils)</i>	
SOP-No. 342 2013-08	Determination of pesticides in consumer goods and environmental samples using GC-MSD (QuEChERS) <i>(Restriction: here only investigation of sediments and soils)</i>	
SOP-No. 553 2019-02	Determination of alkylphenols and alkylphenol ethoxylates and bisphenols from soil and sediments by GC-MSD	

6.2.3 Determination of PCDD/PCDF and dioxin-like PCBs by HRGC-HRMS

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
SOP-No. 231 2021-11	Determination of the mass concentration of PCDD/PCDF and dioxin-like PCBs in environmental samples	

6.2.4 Determination of elements by means of inductively coupled plasma mass spectrometry (ICP-MS)

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
DIN EN ISO 17294-2 2017-01	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes (Modification: <i>for sediments, soil and sludge determination in royal water outcrops</i>)	SOP-No. 439 2020-06

6.2.5 Gravimetrische Bestimmungen

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
DIN EN 15934 2012-11	Sludge, treated biowaste, soil and waste - Calculation of the dry matter fraction after determination of the dry residue or the water content (Restriction: <i>here only application of method A</i>)	SOP-No. 26 2020-06

7 Investigation of Biota

Standard/Date of issue/ in-house procedure	Analyte title of the standard or of the in-house procedure Information on testing technology	Short title of the in- house SOP
ASU L 00.00-19/1 2015-06	Investigation of foodstuffs - Determination of traces of elements in foodstuffs - Pressure digestion (adoption of the standard of the same name DIN EN 13805, issue December 2014) (Modification: <i>Matrix here Biota</i>)	SOP-No. 53 2021-09
DIN EN ISO 17294-2 2017-01	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes Modification: <i>for biota determination in digestion solutions</i>)	SOP-No. 53 2021-09
SOP-No. 3 2022-08	Determination of organotin compounds in biota by GC-ICP-MS	

8 Examinations according to drinking water ordinance - TrinkwV**Sampling**

Method	Title
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological tests

Enclosure 1: MICROBIOLOGICAL PARAMETERS**Part I: General requirements for drinking water**

Seq. No.	Parameter	Method
1	Escherichia coli (E. coli)	DIN EN ISO 9308-1 (K 12) 2017-09
2	Enterococci	DIN EN ISO 7899-2 (K 15) 2000-11

PART II: Requirements for drinking water intended for dispensing in sealed containers

Seq. No.	Parameter	Method
1	Escherichia coli (E. coli)	DIN EN ISO 9308-1 (K 12) 2017-09
2	Enterococci	DIN EN ISO 7899-2 (K 15) 2000-11
3	Pseudomonas aeruginosa	DIN EN ISO 16266 (K 11) 2008-05

ENCLOSURE 2: CHEMICAL PARAMETERS**PART I: Chemical parameters whose concentration in the distribution network, including the drinking water installation, usually no longer increases**

not used

PART II: Chemical parameters whose concentration in the distribution network, including the drinking water installation, can increase

not used

ENCLOSURE 3: INDICATOR PARAMETERS**PART I: General indicator parameters**

Seq. No.	Parameter	Method
1	Aluminium	not used
2	Ammonium	not used
3	Chlorid	not used
4	Clostridium perfringens (including spores)	DIN EN ISO 14189 (K 24) 2016-11
5	Coliform bacteria	DIN EN ISO 9308-1 (K 12) 2017-09
6	Iron	not used
7	Staining (spectral absorption coefficient Hg 436 nm)	not used
8	Odor (as TON)	not used

Seq. No.	Parameter	Method
9	Taste	not used
10	Colony number at 22 °C	DIN EN ISO 6222 (K 5) 1999-07 TrinkwV §15 Absatz (1c)
11	Colony number at 36 °C	DIN EN ISO 6222 (K 5) 1999-07 TrinkwV §15 Absatz (1c)
12	Conductivity	not used
13	Manganese	not used
14	Sodium	not used
15	Organically bound carbon (TOC)	not used
16	Oxidizability	not used
17	Sulfate	not used
18	Turbidity	not used
19	Hydrogen ion concentration	not used
20	Calcilet dissolving capacity	not used

PART II: Special requirements for drinking water in drinking water systems – installation

Parameter	Method
Legionella spec.	ISO 11731 2017-05 UBA Recommendation 18 December 2018

ENCLOSURE 3a: Requirements for drinking water with regard to radioactive substances

not used

Parameters that are not included in Annexes 1 to 3 of the Drinking Water Ordinance

Further periodic studies

not used