

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14292-01-00 according to ISO/IEC 17025:2005

Period of validity: 05.03.2019 to 04.03.2024

Date of issue: 05.03.2019

Holder of certificate:

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Tests in the fields:

physical, physico-chemical, chemical, microbiological, visual, immunological and molecular biological analysis of food, food additives and feeding stuff

Abbreviations used: see last page

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

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

The listed test 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 test methods in a flexible scope of accreditation.

1 Microbiological Analysis of Food, Food Additives and Feeding Stuff

1.1 Culture Microbiology Analysis of Bacteria in Food and Food Additives using different Plating Techniques as well as Membrane Filtration and MPN *

ISO 4831 2006-08	Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of coliforms - Most probable number technique
ISO 4832 2006-02	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coliforms - Colony-count technique
ISO 4833 2013-09	Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Colony-count technique at 30 degrees C
ISO 6579-1 2017-02	Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of Salmonella spp. (Modification: <i>also higher weight of samples</i>)
ISO 6888-1 2003-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium
ISO 6888-2 1999-02	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 2: Technique using rabbit plasma fibrinogen agar medium
ISO 7251 2005-02	Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of presumptive Escherichia coli - Most probable number technique
ISO 7932 2004-06	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus - Colony-count technique at 30 degrees C
ISO 7937 2004-08	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of Clostridium perfringens - Colony-count technique
ISO 10272-1 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of Campylobacter spp. - Part 1: Detection method

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ISO 10272-2 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Campylobacter</i> spp. - Part 2: Colony-count technique
ISO 10273 2003-06	Microbiology of food and animal feedings stuffs - Horizontal method for the detection of presumptive pathogenic <i>Yersinia enterocolitica</i> (<i>withdrawn standard</i>)
ISO 11290-1 2017-05	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. - Part 1: Detection method
ISO 11290-2 2017-05	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. - Part 2: Enumeration method
ISO 13720 2010-08	Meat and meat products - Enumeration of presumptive <i>Pseudomonas</i> spp.
ISO 15213 2003-05	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions
ISO 15214 1998-08	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of mesophilic lactic acid bacteria - Colony-count technique at 30 degrees C
ISO 16649-2 2001-04	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> - Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
ISO 16654 2001-05	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Escherichia coli</i> O157
ISO 17410 2001-05	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of psychrotrophic microorganisms
ISO 21528-1 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 1: Detection of Enterobacteriaceae
ISO 21528-2 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count technique

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ISO 21567 2004-11	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Shigella</i> spp.
ISO 21872-1 2017-06	Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio</i> spp. - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholera</i> and <i>Vibrio vulnificus</i>
ISO 22964 2017-04	Microbiology of the food chain - Horizontal method for the detection of <i>Cronobacter</i> spp
GB 4789.2-2016 2017-03	National food safety standard-Food microbiological examination: Aerobic plate count
GB 4789.3-2016 2017-06	National food safety standard-Food microbiological examination: Enumeration of coliforms
GB 4789.4-2016 2017-06	National food safety standard-Food microbiological examination: <i>Salmonella</i>
GB 4789.5-2012 2012-07	National food safety standard-Food microbiological examination: <i>Shigella</i> spp.
GB 4789.7-2013 2014-06	National food safety standard-Food microbiological examination: <i>Vibrio parahaemolyticus</i>
GB 4789.9-2014 2015-05	National food safety standard-Food microbiological examination: <i>Campylobacter jejuni</i>
GB 4789.10-2016 2017-06	National food safety standard-Food microbiological examination: <i>Staphylococcus aureus</i>
GB 4789.11-2014 2015-05	National food safety standard-Food microbiological examination: β - <i>Streptococcus hemolyticus</i>
GB 4789.13-2012 2012-07	National food safety standard-Food microbiological examination: <i>Clostridium perfringens</i>
GB 4789.14-2014 2015-05	National food safety standard-Food microbiological examination: <i>Bacillus cereus</i>
GB 4789.30-2016 2017-06	National food safety standard-Food microbiological examination: <i>Listeria monocytogenes</i>
GB 4789.35-2016 2017-06	National food safety standard-Food microbiological examination: Lactic acid bacteria

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GB 4789.36-2016 2017-06	Microbiological examination of food hygiene-Examination of Escherichia coli O157:H7/NM
GB 4789.38-2012 2012-07	National food safety standard-Food microbiological examination: Enumeration of Escherichia coli
GB 4789.39-2013 2014-06	National food safety standard-Food microbiological examination: Enumeration of Fecal Coliforms
GB 4789.40-2016 2017-06	National food safety standard-Food microbiological examination: Enterobacter sakazakii
GB 4789.41-2016 2017-03	National Food Safety Standard - Food Microbiology Examination: Enterobacteriaceae (Modification: <i>here only plate count method and MPN method</i>)
CRA IX-A-1 2007-01	Microbiology - Detection and enumeration of Pseudomonas spp. and Pseudomonas aeruginosa
FDA-BAM Chapter 3 2001-01	Bacteriological Analytical Manual, Chapter 3: Aerobic Plate Count
FDA-BAM Chapter 4 2017-06	Bacteriological Analytical Manual, Chapter 4: Enumeration of Escherichia coli and the Coliform Bacteria
FDA-BAM Chapter 5 2016-08	Bacteriological Analytical Manual, Chapter 5: Salmonella
FDA-BAM Chapter 10 2017-03	Bacteriological Analytical Manual, Chapter 10: Listeria monocytogenes
FDA-BAM Chapter 12 2016-03	Bacteriological Analytical Manual, Chapter 12: Staphylococcus aureus
FDA-BAM Chapter 14 2012-02	Bacteriological Analytical Manual, Chapter 14: Bacillus cereus
APHA Compendium Chapter 7 2015-06	Microbiology - Enumeration of mesophilic anaerobic bacteria
APHA Compendium Chapter 23 2015-06	Microbiology - Enumeration of mesophilic aerobic sporeformers

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APHA Compendium Chapter 24 2015-06	Microbiology - Enumeration of Mesophilic anaerobic sporeformers
APHA Compendium Chapter 26 2015-06	Microbiology - Enumeration of thermophilic aerobic sporeformers
APHA Compendium Chapter 27 2015-06	Microbiology - Detection of Thermophilic anaerobic sporeformers
APHA Compendium Chapter 28 2015-06	Microbiology - Enumeration of sulfide spoilage sporeformers
NMKL 125, 4th Ed. 2005	Thermotolerant coliform bacteria Enumeration in food and feed
SN/T 1933.1 2007-12	Detection of Enterococci in food and water - Part 1: Method for plate count and MPN

1.2 Culture Microbiology Determination of Yeast and Mould in Food and Food Additives using Plating Techniques *

ISO 21527-1 2008-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 1: Colony count technique in products with water activity greater than 0,95
ISO 21527-2 2008-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 2: Colony count technique in products with water activity less than or equal to 0,95
GB 4789.15-2016 2017-04	National food safety standard-Food microbiological examination: Enumeration of moulds and yeasts
FDA-BAM Chapter 18 2001-01	Bacteriological Analytical Manual, Chapter 18: Yeasts, Molds and Mycotoxins
APHA Compendium Chapter 17 2015-06	Microbiology - Enumeration of osmophilic yeasts
APHA Compendium Chapter 21 2015-06	Microbiology - Enumeration of Heat-resistant moulds

2 Molecular Biological Determination of Salmonella in Food and Feed using BAX® System

AOAC Official Method 2003-09	Salmonella in Selected Foods - BAX® Automate System (Modification: <i>also higher weight of sample</i>)
AOAC 17.9.32 2006	Microbiology - Detection of Salmonella spp. using BAX automate system (According to AOAC 17.9.32 & BAX user guide)

3 Immunological Analysis of Food and Food Additives

3.1 Determination of Vitamin in Food using ELISA

GB 5009.210-2016 2017-03	National food safety standard Determination of pantothenic acid in foods
GB 5009.259-2016 2017-03	National food safety standard determination of biotin in foods
GB 5413.14-2010 2010-06	National food safety standard Determination of vitamin B ₁₂ in foods for infants and young children, milk and milk products
GB 5009.211-2014 2015-09	National food safety standard determination of folic acid in foods

3.2 Determination of Allergens in Food using ELISA *

R-Biopharm AG RIDASCREEN® Histamine R1604 2014-06	Enzyme immunoassay for the quantitative analysis of histamine in white and red wine, sparkling wine, milk, cheese, fresh fish, canned fish and fish meal
R-Biopharm AG RIDASCREEN®FAST Casein R4612 2016-10	Enzyme immunoassay for the quantitative analysis of casein in food like ice cream, wine, chocolate, beverages, infant formula, bakery goods, sausages, cake and bread mix
R-Biopharm AG RIDASCREEN®FAST Milk R4652 2015-07	Enzyme immunoassay to quantify milk proteins in food containing whey, milk or milk powder such as sausages, ice cream, chocolate, bakery goods, cake and bread mix, soups, sauces, dressings and beverages (juice, wine, beer)
R-Biopharm AG RIDASCREEN® β-Lactoglobulin R4901 2015-12	Enzyme immunoassay for the quantitative analysis of β-lactoglobulin in hydrolyzed milk products including hypoallergenic baby food

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<p>R-Biopharm AG RIDASCREEN®FAST Mandel/Almond R6901 2015-07</p>	<p>Enzyme immunoassay for the quantitative analysis of almond or parts of almond in breakfast cereals, cookies, ice cream and chocolate</p>
<p>R-Biopharm AG RIDASCREEN®FAST Peanut R6202 2016-03</p>	<p>Enzyme immunoassay for the quantitative analysis of peanuts or parts of peanuts in food. Peanut can be present as an ingredient or as a contamination in raw or heated food (AOAC-RI 030404)</p>
<p>R-Biopharm AG RIDASCREEN®FAST Ei/Egg Protein R6402 2014-12</p>	<p>Enzyme immunoassay for the quantitative analysis of whole egg (-powder) in food like salad dressings, sausages, wines, baking-mixtures for cakes or bread and ice cream</p>
<p>R-Biopharm AG RIDASCREEN®FAST Hazelnut R6802 2017-06</p>	<p>Enzyme immunoassay for the quantitative analysis of hazelnut (e.g. traces of hazelnut) in food such as cereals, bakery products, ice cream and chocolate</p>
<p>R-Biopharm AG RIDASCREEN®FAST Macadamia R6852 2016-06</p>	<p>Enzyme immunoassay for the quantitative analysis of macadamia nut in bakery products, ice cream, cereals and chocolate</p>
<p>R-Biopharm AG RIDASCREEN® Gliadin R7001 2015-10</p>	<p>Enzyme immunoassay for the quantitative analysis of contaminations by prolamins from wheat (gliadin), rye (secalin), and barley (hordein) in raw products like flours (buckwheat, rice, corn, oats, teff) and spices as well as in processed food like noodles, ready-to-serve meals, bakery products, sausages, beverages and ice cream (AOAC-OMA 2012.01; AACC1 38.50.01)</p>
<p>R-Biopharm AG RIDASCREEN®FAST Soya R7102 2016-07</p>	<p>Enzyme immunoassay for the quantitative analysis of native and processed soya proteins in food</p>

4 Physical, Physico-Chemical and Chemical Analysis of Food, Food Additives and Feeding Stuff

4.1 High Performance Liquid Chromatography

4.1.1 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using High Performance Liquid Chromatography by Conventional Detector (Amperometry, Fluorescence, PAD,-UV, DAD) **

BS EN 12856 1999-04	Foodstuffs - Determination of acesulfame-K, aspartame and saccharin - High performance liquid chromatographic method
DIN EN 14123 2008-03	Foodstuffs - Determination of aflatoxin B1 and the sum of aflatoxin B ₁ , B ₂ , G ₁ and G ₂ in hazelnuts, peanuts, pistachios, figs, and paprika powder - High performance liquid chromatographic method with post-column derivatisation and immunoaffinity column cleanup
DIN EN 14132 2009-09	Foodstuffs - Determination of ochratoxin A in barley and roasted coffee - HPLC method with immunoaffinity column clean-up
ASU L 00.00-9 1984-11	Inspection of foodstuffs; determination of the preservative agents ¹ content in low-fat foodstuffs
ASU L 00.00-34 2010-09	Inspection of foodstuffs - Multiresidue method for determination of pesticide residues in food
AOAC 983.15 1994	Phenolic Antioxidants in Oils, Fats, and Butter Oil - Liquid Chromatographic Method
AOAC 995.13 1995	Carbohydrates in Soluble (Instant) Coffee - Anion-Exchange Chromatographic Method with Pulsed Amperometric Detection
AOAC 2011.20 2014	5'-Mononucleotides in Infant Formula and Adult/Pediatric Nutritional Formula
ESS-TP-2363 V1 2018-03	Determination of 6 kinds of preservatives in food (benzoic acid, sorbic acid, methyl 4-hydroxybenzoate, ethyl 4-hydroxybenzoate, propyl 4-hydroxybenzoate and salicylic acid)
ESS-TP-4012 V1 2014-06	Determination of total Amino Acids in Dairy products by HPLC-UV
ESS-TP-4013 V1 2013-12	Determination of Tryptophan in Foods by HPLC-FLD

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GB 5009.11-2014 Chapter II, Method 1 2016-03	National food safety standard - Determination of total arsenic and abio-arsenic in food
GB 5009.22-2016 2017-06	National food safety standard - Determination of Aflatoxin B and G in foods - HPLC-fluorescence detection method
GB 5009.24-2016 2017-06	National Food Safety Standard Determination of aflatoxin M in milk and milk products
GB 5009.32-2016 2017-06	National food safety standard - Determination of propylgallate in oils and fats
GB 5009.35 2016-09	Determination of Synthetic colors in foods by using HPLC-DAD
GB 5009.82-2016 2017-06	National food safety standard Determination of vitamin A, D and E in foods
GB 5009.83-2016 2017-06	National food safety standard Determination of beta carotene in foods
GB 5009.84-2016 2017-03	National food safety standard Determination of vitamin B ₁ in foods
GB 5009.85-2016 2017-06	National food safety standard Determination of vitamin B ₂ in foods
GB 5009.89-2016 2017-06	National food safety standard Determination of vitamin niacin and niacinamide in foods
GB 5009.154-2016 2017-06	National food safety standard Determination of vitamin B ₆ in foods
GB 5009.158-2016 2017-06	National food safety standard Determination of vitamin K ₁ in foods
GB 5009.169-2016 2017-03	National food safety standard Determination of taurine in foods
GB 5009.248-2016 2017-03	Determination of lutein in foods
GB 5009.210-2016 Method 2 2017-03	Determination of pantothenic acid in foods

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GB/T 31579-2015 2015-11	Inspection of grain and oils - Determination of sesamin and sesamol in sesame oil - High performance liquid chromatography
SN/T 1743-2006 2006-01	Determination of Synthetic colors in foods by using HPLC-DAD
GB/T 5009.140-2003 2004-01	Determination of acesulfame potassium in beverage
GB 5009.263-2016 2017-06	National food safety standard Determination of aspartame and aclame in food
GB 5009.28-2016 2017-06	National food safety standard Determination of preservatives (Sorbic acid, Benzoic acid) in food
ASU L 00.00-9 2017-05	Determination of preservatives in low-fat food (Sorbic acid, Benzoic acid)

4.1.2 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using High Performance Liquid Chromatography by Mass Selective Detector (MS/MS- Detector) **

BS EN 15662 2018-06	Foods of plant origin - Multimethod for the determination of pesticide residues using GC-MS and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method
ESS-TP-0558 V1 2016-05	Determination of Ilegle dye in spice and herb by using LC-MS/MS (internal method)
ESS-TP-0725 V4 2016-04	Determination of Deoxynivalenol and Zearalenone in feed and cereal products by using LC-MS/MS technique
ESS-TP-1543 V1 2017-02	Determination of whey protein in milk powder by using LC-MS/MS (internal method)
USGS AppNote 9/2013 2017-09	Determination Of Glyphosate Glufosinate and Aminomethyl Phosphonic Acid (AMPA) by HPLC-MS/MS
ESS-TP-2265 V6 2017-04	Determination of Nicotine and Cotinine in mushrooms, egg powder and related matrices using LC-MS/MS technique
ESS-TP-2366 V2 2017-04	Determination of Patulin in apple juice, apple puree and other fruit purees by LC-MS/MS

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ESS-TP-2451 V2 2017-04	Determination of nitrofurane metabolites in foodstuffs of animal origin using LC-MS/MS
ESS-TP-2478 V2 2017-04	Determination of dyes with fungicidal effect in fish, feeding staff and oleoresin using LC-MS/MS technique
ESS-TP-2480 V2 2017-04	Determination of coccidiostatics in eggs, egg products, feeds and poultry by LC-MS/MS
ESS-TP-2572 V2 2017-04	Determination of quinolones and fluoroquinolones in meat, honey and related matrices by means of LC-MS/MS
ESS-TP-2644 V2 2017-05	Determination of Pesticide Residues in foodstuffs with high fat content by Gel Permeation Chromatography clean up using GC-MS and LC-MS/MS technique
ESS-TP-2645 V2 2017-05	Determination of chloramphenicol and nitroimidazoles in foodstuff of animal origin by LC-MS/MS
BS EN 15055 2006-06	Non fatty foods. Determination of chlormequat and mepiquat LC-MS/MS method
ESS-TP-3012 V3 2014-02	Determination of Pesticide Residues in food stuff with high fat content with Solvent Extraction and Gel Permeation Chromatography using LC-MS/MS and GC-MS technique
ESS-TP-3027 V2 2014-02	Determination of beta agonists (clenbuterol, salbutamol and ractopamine) in eggs using LC-MS/MS technique
ESS-TP-3028 V2 2014-10	Determination of Acrylamide in Food Matrices using LC-MS/MS
FDA LIB No. 4421 2008-10	Determination of Melamine and Cyanuric Acid Residues in Infant Formula using LC-MS/MS
GB 23200.13-2016 2016-12	Food safety national standard - Determination of residues of 448 pesticides and related chemicals in tea by liquid chromatography - mass spectrometry
GB/T 20769 2009-05	Determination of 450 pesticides and related chemicals residues in fruits and vegetables - LC-MS/MS method
GB/T 22388-2008 2008-10	Determination of Melamine in raw milk and dairy products
USDA CLG-SUL4.02 2010-04	Quantitation and Confirmation of Sulfonamides by Liquid Chromatography - Tandem Mass Spectrometry (LC-MS-MS)

4.2 Gas Chromatography

4.2.1 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using Gas Chromatography with Conventional Detectors (GC-FID and GC-MSD) **

ISO 12966-2 2017-03	Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 2: Preparation of methyl esters of fatty acids
ISO 12966-4 2015-06	Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 4: Determination by capillary gas chromatography
BS EN 12393-1 2013-11	Foods of plant origin - Multiresidue methods for the gas chromatographic determination of pesticide residues - Part 1: General considerations <i>(withdrawn standard)</i>
BS EN 12393-2 2013-11	Foods of plant origin - Multiresidue methods for the gas chromatographic determination of pesticide residues - Part 2: Methods for extraction and cleanup <i>(withdrawn standard)</i>
BS EN 12393-3 2013-11	Foods of plant origin - Multiresidue methods for the gas chromatographic determination of pesticide residues - Part 3: Determination and confirmatory tests <i>(withdrawn standard)</i>
BS EN 15662 2018-06	Foods of plant origin - Multimethod for the determination of pesticide residues using GC-MS and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method
ASU L 00.00-34 2010-09	Inspection of foodstuffs - Multiresidue method for determination of pesticide residues in food
AOAC 994.10 1994	Cholesterol in foods; Direct Saponification - Gas Chromatographic method
ESS-TP-3013 V3 2014-04	Bromine Containing Fumigants Determined as Total Inorganic Bromide in food by GC-ECD
ESS-TP-3401 V3 2018-03	Determination of Cholesterol in Foods Direct Saponification – Gas Chromatographic Method

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ESS-TP-2583 V2 2017-05	Determination of Dithiocarbamates and/or Thiuram Disulphides Fungicides in Low Fat Food by GC-FPD
GB 5009.168-2016 2017-06	National food safety standard Determination of fatty acid in foods
GB 5009.267-2016 2017-06	National food safety standard Determination of iodine in foods
GB 5009.270-2016 2017-06	National food safety standard Determination of inositol in foods

4.2.2 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using Gas Chromatography with Mass Selective Detectors (MS/MS-MS) **

BS EN 15662 2018-06	Foods of plant origin - Multimethod for the determination of pesticide residues using GC-MS and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method
ESS-TP-0665 V6 2016-07	Determination of Pesticide Residues in Tea Leaves with Solvent Extraction and Solid-Phase-Extraction using LC-MS/MS and GC-MS technique
ESS-TP-0721 V7 2016-10	Determination of Pesticide Residues in food stuff with strong matrix effects with Solvent Extraction and Solid-Phase-Extraction/Gel Permeation Chromatography using LC-MS/MS and GC-MS technique
ESS-TP-0722 V6 2016-10	Determination of Pesticide Residues in Tea Leaves with Solvent Extraction and Solid-Phase-Extraction/Gel Permeation Chromatography using LC-MS/MS and GC-MS technique (extensive screen)
ESS-TP-2570 V3 2018-03	Determination of plasticisers in foods, utensils and raw materials by GC MS
GB 5009.271-2016 2017-06	Determination of plasticisers in foods, utensils and raw materials by GC MS

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EN 15662 2018-06	Foods of plant origin - Multimethod for the determination of pesticide residues using GC-MS and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (Modification: <i>Final step and add additional solution before analysis</i>)
GB 23200.8-2016 2017-06	Food safety national standard - Determination of 500 pesticides and related chemical residues in fruits and vegetables - Gas chromatography-mass spectrometry
GB/T 23204-2008 2009-05	Determination of 519 pesticides and related chemicals residues in tea GC-MS method

4.3 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using Ion Chromatography

ESS-TP-1732 V1 2017-03	Determination of Fructans in infant formula and supplemented milk powder by using Ion Chromatography
ESS-TP-1964 V1 2017-03	Determination of TGOS in infant formula and supplemented milk powder by using Ion Chromatography
ESS-TP-2506 V2 2017-05	Determination of the organic acids in food by HPAE-CD
GB 5009.33-2016 2017-06	National food safety standard - Determination of nitrite and nitrate in foods

4.4 Determination of Ingredients, Additives, Residues and Contaminants in Food using Spectrophotometric Methods *

AOAC 78.1 1995	Enzymatic Determination of Free Carnitine in Milk and Infant Formulas
AOAC 971.14 1972	Trimethylamine nitrogen in seafood
GB 5009.33 2016-12	National food safety standard - Determination of nitrite and nitrate in foods
GB 5413.18 2010-06	National food safety standard Determination of vitamin C in foods for infants and young children, milk and milk products

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GB 5413.20 2014-06	National food safety standard Determination of choline in infant formula and milk products
GB/T 18963-2012 2013-04	Determination of Transmittance and Color Value of Apple Juice by spectrophotometer (GB/T 18963-2012)

4.5 Gravimetric Determination of Ingredients and Additives in Food and Feeding Stuff *

ISO 6865 2000-10	Animal feeding stuffs - Determination of crude fibre content - Method with intermediate fibrillation
AOAC 923.03 1923	Determination of Ash in Wheat Flour
AOAC 932.06 1932	Fat in Dried Milk
AOAC 934.01 1934	Moisture in Animal Feed
AOAC 934.06 1934	Moisture in Dried Fruits (Modification: <i>dried fruits and all other food products containing high sugar</i>)
AOAC 935.29 1935	Moisture in Malt (Modification: <i>all food products except dried fruits and other food products containing high sugar</i>)
AOAC 941.12 1941	Determination of Ash Value in Spices (Modification: <i>also food and feeding stuff</i>)
AOAC 963.15 1973	Fat in Cacao Products - Soxhlet Extraction Method
AOAC 991.43 1995-03	Total, Soluble, and Insoluble Dietary Fibre in Foods
AOAC 2003.05 2006	Crude Fat in Feeds, Cereal Grains, and Forages
ESS-TP-2508 V2 2017-05	Determination of Net Weight of Frozen Fish Blocks After De-glazing
GB 5009.3-2016 2017-03	National Food Safety Standard Determination of moisture in foods

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GB 5009.4-2016 2017-03	National Food Safety Standard Determination of ash in foods
GB 5009.6-2016 2017-06	Determination of fat in Foods
GB 5009.88-2014 2016-03	National Food Safety Standard Determination of dietary fiber in foods
GB 5413.39-2010 2010-06	National food safety standard Determination of nonfat total milk solids in milk and milk products
GB/T 5009.10-2003 2004-01	Determination of crude fiber in vegetable foods
GB/T 6434-2006 2006-11	Feeding stuffs - Determination of crude fiber content - Method with intermediate filtration
GEA Niro analytical methods A10 a 2005-09	Surface free fat of powder

4.6 Determination of Trace Elements in Food, Food Additives and Feeding Stuff using Atomic Absorption Spectrometry

BS EN 13804 2013-03	Foodstuffs - Determination of trace elements - Performance criteria, general considerations and sample preparation
BS EN 13805 2014-10	Foodstuffs - Determination of trace elements. Pressure digestion
BS EN 13806 2002-09	Foodstuffs - Determination of trace elements - Determination of mercury by cold-vapour atomic absorption spectrometry (CVAAS) after pressure digestion
GB 5009.12-2017 2017-10	National food safety standard Determination of Lead in food method 1
GB 5009.15-2014 2015-07	National food safety standard Determination of Cadmium in food
GB 5009.17-2014 Chapter 1 2016-03	National food safety standard Determination of Total Mercury and Organic-mercury in Food

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GB 5009.241-2017 Method 3 2017-10	National food safety standard Determination of magnesium in food
GB 5009.268-2016 Method 1 2017-06	National food safety standard Determination of multi-elements in foods

4.8 Determination of Elements in Food and Food Additives using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

GB 5009.268-2016 Method 2 2017-06	National Food Safety Standard Determination of Multi-element in Foods
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4.9 Determination of Ingredients, Additives and Indicators in Food and Feed using Titration *

ISO 660 2009-06	Animal and vegetable fats and oils - Determination of acid value and acidity
ISO 5377 1981-12	Starch hydrolysis products; Determination of reducing power and dextrose equivalent; Lane and Eynon constant titre method
EU Regulation 95/149/EC 1995-05	EU Regulation 95/149/EC: Commission Decision of 8 March 1995 fixing the total volatile basic nitrogen (TVB-N) limit values for certain categories of fishery products and specifying the analysis methods to be used
AOAC 942.15 1980	Acidity (Titratable) of Fruit Products
AOAC 984.13 1994	Protein (Crude) Determination in Animal Feed: Copper Catalyst Kjeldahl Method (Modification: <i>here also for food</i>)
AOAC 985.33 1988	Vitamin C (Reduced Ascorbic Acid) in Ready-to-Feed Milk-Based Infant Formula 2,6-Dichloroindophenol Titrimetric Method First Action 1985
AOCS CD 8b-90:2013 2016-06	Peroxide Value, Acetic Acid - Isooctane Method
BS EN 1988-1 1998-06	Foodstuffs. Determination of sulfite. Part 1: Optimized Monier-Williams method

Annex to the accreditation certificate D-PL-14292-01-00

GB/T 12456-2008 2017-04	Determination of total acid in foods by titration method and pH electric potential method
GB 5009.7-2016 2017-07	Determination of reducing sugar in foods by titration method
GB 5009.8-2016 Second method 2017-08	Determination of sucrose and total sugar in foods by titration method
GB 5009.5-2016 2017-06	National food safety standard Determination of protein in Foods
GB 5009.9-2016 2017-06	Determination of starch in foods
GB 5009.34-2016 2016-09	Determination of sulfur dioxide in foods
GB 5009.227-2016 2017-03	Determination of peroxide value in foods
GB 5009.228-2016 2017-03	Determination of the total volatile basic nitrogen in foods
GB 5009.229-2016 2017-03	Determination of acid value in foods
GB 5009.239-2016 2017-03	National Food Safety Standard Determination of acidity in foods

5 Determination of GMO in Food using Qualitative Real Time PCR

Gene Scan Test kit GMO Screen RT (35s/ NOS/ FMV; IPC NR) Cat. No 5421220302 Version 9; 30.06.2017	Screening of genetically modified organisms (GMOs) in food, feed and seeds
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6 Physical, Visual and Sensory Testing of Food

GB 5413.30-2016 2017-06	National food safety standard Determination of impurities in milk and milk products
ESS-TP-2324 V2 2017-02	Testing of Frozen Fruits and Vegetables (including net weight, foreign matter, color test, size test, sensory evaluation and packaging checks)
ESS-TP-2507 V2 2017-05	Determination of Nematodes in Fish Fillet (OPLFP-2 JUNE 2006)

Abbreviations used:

AOAC	Association of Official Analytical Chemists
AOCS	American Oil Chemists' Society
APHA	American Public Health Association
ASU	Official collection of investigations according to § 64 LFGB
BS	British Standard
CRA	Corn Refiners Association
DIN	German Institute for Standardisation (Deutsches Institut für Normung e. V.)
EN	European Standard
ESS-TP	In house method of the Eurofins Technology Service (Suzhou) Company Limited
EU	European Union
FDA-BAM	FDA's Bacteriological Analytical Manual
GEA	German Engineering Alliance
GB	Chinese national GB standards (Mandatory National Standards)
GB/T	Chinese national GB standards (Voluntary National Standards)
IEC	International Electrotechnical Commission
IFU	International Federation of Fruit Juice Producers
ISO	International Organization for Standardization
NMKL	Nordic Committee on Food Analysis
RXXXX	RIDASCREEN®FAST XXXX
SC/T	Aquaculture industry standard of China
SN/T	Industry Recommendatory Standard of China Entry-Exit Inspection and Quarantine
USP	United States Pharmacopeia
USDA	United States Department of Agriculture