

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14156-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.01.2020

Date of issue: 10.01.2020

Holder of certificate:

Analytica Alimentaria GmbH

at the locations:

**Fahrenheitstraße 5, 14532 Kleinmachnow
Polígono Industrial Sector 20, C/Carbón, Portal 2, 04009 Almeria, Spain**

Tests in the fields:

physico-chemical and chemical analyses of pesticide residues in foodstuffs, water, soil, fertilizer and plant protection products;
physico-chemical analyses of element traces in foodstuffs;
microbiological analyses of foodstuffs, animal feeding stuffs, water intended for human consumption and surfaces;
molecular biological analyses of foodstuffs, animal feeding stuffs, water intended for human consumption, surfaces and soil;
sensorial and enzymatic analyses of foodstuffs;
sampling of water proceeding from stagnant water, sampling of fruit, vegetables, canned food, animal feeding stuffs, surfaces, agricultural substrates and soil

Within the given testing field marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkKS, the free choice of standard or equivalent testing methods.

Within the given examination field marked with **, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkKS, the modification, development and refinement of testing methods.

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

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The listed testing methods are exemplary.

Within the scope of accreditation marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.**

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

The testing methods are marked by the following symbols representing the locations where they are performed:

B = Kleinmachnow (Germany)

A = Almería (Spain)

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1 Sampling of water proceeding from stagnant water, fruit, vegetables, animal feeding stuffs, surfaces, agricultural substrates and soil ***

| | | |
|---------------------------|--|------|
| DIN 38402-A 12 1985-06 | Sampling of water proceeding from stagnant waters | A, B |
| ISO 5667-1 2006-12 | Water quality - Sampling - Part 1: Guidance on the design of sampling programmes and sampling techniques | A, B |
| ISO 5667-3 2012-11 | Water quality - Sampling - Part 3: Preservation and handling of water samples <i>(withdrawn standard)</i> | A, B |
| ISO 5667-4 2016-06 | Water quality - Sampling - Part 4: Guidance on sampling from lakes, natural and man-made | A, B |
| ISO 7002 1986-12 | Agricultural food products - Layout for a standard method of sampling from a lot | A |
| ISO 10381-6 2009-03 | Soil quality - Sampling - Part 6: Guidance on the collection, handling and storage of soil under aerobic conditions for the assessment of microbiological processes, biomass and diversity in the laboratory | B |
| ISO 10381-1 2002-12 | Soil quality - Sampling - Part 1: Guidance on the design of sampling programmes | B |
| ISO 10381-2 2002-11 | Soil quality - Sampling - Part 2: Guidance on sampling techniques | B |
| ISO 13307 2013-03 | Microbiology of food and animal feed- Primary production stage - Sampling techniques | A, B |
| ISO/TS 17728 2015-06 | Microbiology of the food chain - Sampling techniques for microbiological analysis of food and feed samples | A, B |
| ISO 18593 2004-06 | Microbiology of food and animal feeding stuffs - Horizontal methods for sampling techniques from surfaces using contact plates and swabs <i>(withdrawn standard)</i> | A, B |
| ISO 19458 2006-08 | Water quality - Sampling for microbiological analysis <i>(Modification: only for irrigation water and water for industrial use)</i> | A, B |

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| Commission Directive 2002/63/EC | COMMISSION DIRECTIVE 2002/63/EC of 11 July 2002 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 | A, B |
| Commission Regulation (EC) No 152 2009-01 | COMMISSION REGULATION (EC) No 152/2009 of 27 January 2009. Laying down the methods of sampling and analysis for the official control of feed | A, B |
| Commission Regulation (EU) No 178 2010-03 | COMMISSION REGULATION (EU) No 178/2010 of 2 March 2010. Amending Regulation (EC) No 401/2006 as regards groundnuts (peanuts), other oilseeds, tree nuts, apricot kernels, liquorice and vegetable oil | A, B |
| Commission Regulation (EC) No 401 2006-02 | COMMISSION REGULATION (EC) No 401/2006 of 23 February 2006. Laying down the methods of sampling and analysis for the official control of the levels of mycotoxins in foodstuffs | A, B |
| Commission Regulation (EU) No 691 2013-07 | COMMISSION REGULATION (EU) No 691/2013 of 19 July 2013. Amending Regulation (EC) No 152/2009 as regards methods of sampling and analysis | A, B |
| SOP SAM 001 2018-08 | Sampling of fruits, vegetables and preserved food in the field or in the pack house for determining pesticide residues | A, B |
| SOP SAM 002 2018-08 | Representative sampling of soils, water for irrigation, substrates and nutritional solutions for determination of heavy metals, pesticides and/or nutrients | A, B |
| SOP SAM 003 2018-08 | Sampling of feeding stuff | A, B |
| SOP SAM 004 2018-08 | Sampling of fruits and vegetables in the field and warehouse for the determination of microbiological parameters | A, B |
| SOP SAM 005 2018-08 | Irrigation water and water for industrial use - Sampling for microbiological analysis | A, B |
| SOP SAM 006 2018-08 | Sampling of soils for microbiological analysis | A, B |
| SOP SAM 007 2018-08 | Surface sampling with swabs and diptslides for microbiological analysis | A, B |

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| SOP SAM 008 2018-08 | Sampling of food for the detection of mycotoxins | A, B |
|------------------------|--|------|

2 Analyses of foodstuffs, fertilizer, plant protection products and nutrient solutions

2.1 Determination of residues and contaminants by gas chromatography with standard detectors (ECD) **

| | | |
|-----------------------------|---|------|
| DIN EN 13191-2 2000-10 | Determination of bromide residues - Part 2: Determination of inorganic bromide | A, B |
| BVL L 00.00-49/2 2002-12 | Determination of dithiocarbamate and thiuram disulfide residues - Part 2: Gas chromatography | A, B |
| SOP GC 009 2018-05 | Analysis method for dithiocarbamate residues by gas chromatography with electron capture detector (Headspace GC/ECD) in fruits and vegetables and/or with MS/MS detector (Headspace GC/MS(-MS)) | A, B |
| SOP GC-012 2012-10 | Determination of Bromide with GC/ECD in fruits and vegetables | A |

2.2 Determination of residues and contaminants by gas chromatography with mass spectrometry detection (MS und MS/MS) **

| | | |
|------------------------------|--|------|
| BVL L 00.00-115/1 2015-03 | Multimethod for the determination of pesticide residues in vegetal foodstuffs by GC-MS(/MS) or LC-MS/MS after acetonitrile extraction/distribution and purification by dispersive SPE (QuEChERS1) <i>(withdrawn standard)</i> | A, B |
| SOP GCLC-004 2018-05 | GC/MS- and LC-MS/MS-Screening: qualitative and semi-quantitative orientative analysis of plant protection products and fertilizers | A, B |
| SOP GC 009 2018-05 | Analysis method for dithiocarbamate residues by gas chromatography with electron capture detector (Headspace GC/ECD) in fruits and vegetables and/or with MS/MS detector (Headspace GC/MS(-MS)) | A, B |

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2.3 Determination of anions by ion chromatography with conductivity detection **

| | | |
|--------------------------|--|------|
| BVL L 26.00-1 2001-07 | Determination of nitrates in vegetable products - HPLC/IC-method (Modification: <i>Here only IC-method</i>) (<i>withdrawn standard</i>) | A, B |
| SOP IC-17 2018-02 | Determination of anions (NO ₃ , NO ₂ , SO ₄ , SO ₃ , PO ₄ , PO ₃ , Cl and Br) in vegetables, fruits and water by IC with conductivity detector | A, B |

2.4 Determination of residues and contaminants by liquid chromatography with mass spectrometry detection (LC-MS/MS) **

| | | |
|------------------------------|---|------|
| BVL L 00.00-115/1 2015-03 | Multimethod for the determination of pesticide residues in vegetal foodstuff by GC-MS(/MS) or LC-MS/MS after acetonitrile extraction/distribution and purification by dispersive SPE (QuEChERS1) (<i>withdrawn standard</i>) | A, B |
| BVL L 15.00-2 2014-04 | Determination of aflatoxin B1 and the sum of aflatoxin B1, B2, G1 and G2 in cereals, nuts and related products - High-performance liquid chromatography with postcolumn derivatization and immunoaffinity column cleanup (Modification: <i>Application of LC/MS-MS</i>) | A, B |
| SOP GCLC-004 2018-05 | GC/MS- and LC-MS/MS-Screening: qualitative and semi-quantitative orientative analysis of plant protection products and fertilizers | A, B |
| SOP LC-005 2012-10 | Multimethod for the determination of pesticide residues by LC-MS/MS in foodstuff, water and soil | A, B |
| SOP LC-006 2017-06 | Analysis of nitrogen based phyto regulators by liquid chromatography with tandem mass detector (LC/MS-MS) in fruits, vegetables and water | A, B |
| SOP LC-007 2013-09 | Determination of nereistoxins (Bensultap, Cartap, Thiocyclam and Thiosultap-Sodium) in foodstuffs by LC/MS-MS | A, B |
| SOP LC-011 2014-04 | Determination of antibiotics (Chloramphenicol and Tetracycline) in foodstuff by LC/MS-MS | A |

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| | | |
|-----------------------|--|------|
| SOP LC-013 2014-04 | Determination of Morpholin and Ethanolamin in vegetal foodstuff by LC/MS-MS | A, B |
| SOP LC-015 2017-02 | Analysis of aflatoxins (AFLATOXINS B1, B2, G1 and G2) and ochratoxin by liquid chromatography with tandem mass detector (LC/MS-MS) on cereals, dried fruits, feed and related products | A, B |
| SOP LC-016 2018-02 | Determination of Maleic acid hydrazide in vegetables, fruits and food by LC/MS-MS | A, B |
| SOP LC-024 2014-03 | Determination of glyphosate and gluphosinate in vegetables, fruits, soils, waters and foods by LC/MS-MS | A, B |
| SOP LC-027 2018-02 | Analysis of highly polar compounds by liquid chromatography with tandem mass detector (LC/MS-MS) on fruits, vegetables and foodstuff (based on QuPPE - method) | A, B |
| SOP LC-028 2017-06 | Determination of Guazatine in vegetables, fruits and food by LC/MS-MS | A, B |
| SOP LC-031 2017-11 | Analysis of cucurbitacins by liquid chromatography with tandem mass detector (LC/MS-MS) on fruits, vegetables and foodstuff | A, B |
| SOP LC-032 2017-02 | Determination of paraquat in vegetables, fruits, oilseeds and foodstuff by liquid chromatography with tandem mass detector (LC/MS-MS) | A, B |
| SOP LC-033 2017-02 | Determination of diquat in vegetables, fruits, oilseeds and foodstuff by liquid chromatography with tandem mass detector (LC/MS-MS) | A, B |

2.5 Determination of residues and contaminants by liquid chromatography with mass spectrometry detection (LC-Q-TOF) **

| | | |
|-----------------------|---|---|
| SOP LC-035 2018-05 | Determination of the plant growth regulators chlormequat and mepiquat in plant material and food with LC/Q-TOF per in-house method. | B |
| SOP LC-036 2018-06 | Determination of post-harvest treatment substances in fruits and vegetables by LC/Q-TOF | B |

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2.6 Determination of element traces in foodstuffs by mass spectrometry detection with inductively coupled plasma (ICP-MS) **

| | | |
|------------------------|--|---|
| EN 15763 2009-12 | Foodstuffs - Determination of trace elements - Determination of arsenic, cadmium, mercury and lead in foodstuffs by inductively coupled plasma mass spectrometry (ICP-MS) after pressure digestion | B |
| SOP ICP-029 2018-02 | Determination of lead, cadmium, arsenic, mercury, copper, tin, iron, nickel and manganese in vegetables, fruits and food by ICP-MS | B |

3 Analyses of water

3.1 Determination of residues and contaminants by gas chromatography with mass spectrometry detection (MS und MS/MS) **

| | | |
|----------------------|--|---|
| ISO 10695 2000-04 | Water quality - Determination of selected organic nitrogen and phosphorus compounds - Gas chromatographic methods (Modification: <i>Only solid/liquid extraction</i>) | A |
| SOP GC-02 2016-10 | Modular multi-method for the determination of pesticide residues with GC/MS in Water | A |

3.2 Determination of anions by ion chromatography with conductivity detection

| | | |
|--------------------------|--|------|
| BVL L-26.00-1 2001-07 | Analysis of foodstuffs - Determination of nitrate in vegetable products by HPLC/IC (Modification: <i>Here only for water analysis and only IC-methods</i>) (withdrawn standard) | A, B |
| SOP IC-17 2018-02 | Determination of anions in vegetables, fruits and water by IC with conductivity detector | A, B |

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3.3 Determination of residues and contaminants by liquid chromatography with mass spectrometry detection (LC-MS/MS) **

| | | |
|-----------------------|---|------|
| SOP LC-005 2012-10 | Multimethod for the determination of pesticide residues in foodstuffs, water and soil by LC-MS/MS | A, B |
| SOP LC-006 2017-06 | Analysis of nitrogen based phyto regulators by liquid chromatography with tandem mass detector (LC/MS-MS) in fruits, vegetables and water | A, B |
| SOP LC-024 2014-03 | Determination of glyphosate and gluphosinate in vegetables, fruits, soils, waters and foods by LC/MS-MS | A, B |
| SOP LC-027 2018-02 | Determination of highly polar compounds (chlorate, perchlorate, ethephon, fosetyl and phosphoric acid) in water, vegetables, fruits and foods by LC/MS-MS | A, B |

4 Soil analyses

4.1 Determination of residues and contaminants by gas chromatography with mass spectrometry detection (GC-MS, GC-MS/MS) **

| | | |
|-----------------------|---|---|
| ISO 10382 2002-10 | Soil quality - Determination of organochlorine pesticides and polychlorinated biphenyls - by gas chromatography with electron capture detection (Modification: <i>Using mass spectrometry instead of ECD</i>) | A |
| SOP GC-003 2015-09 | Multi-modular method for the determination of pesticide residues in soils and substrates by GC / MS | A |

4.2 Determination of residues and contaminants by liquid chromatography with mass spectrometry detection (LC-MS/MS) **

| | | |
|-----------------------|--|------|
| SOP LC-005 2012-10 | Multimethod for the determination of pesticide residues in foodstuff, water and soil by LC-MS/MS | A, B |
| SOP LC-024 2014-03 | Determination of glyphosate and gluphosinate in vegetables, fruit, soils, water and foodstuff by LC/MS-MS | A, B |
| SOP LC-027 2018-02 | Determination of highly polar compounds (chlorate, perchlorate, ethephon, fosetyl and phosphonic acid) in vegetables, fruit, soil, water and foodstuff by LC/MS-MS | A, B |

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5 Determination of bacteria, mould and yeasts in foodstuff and animal feeding stuffs by microbiological culture methods *

| | | |
|-------------------------------------|---|---|
| ISO 4832 2006-02 | Microbiology of food and animal feedingstuffs - Horizontal method for the enumeration of coliforms - Colony-count technique <i>(Modification: Use of chromogenic agar for coliforms)</i> | A |
| ISO 4833-1/2 2013-09 | Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30° C by pour plate technique. Part 2: Colony count at 30° C by surface plating technique. | A |
| ISO 6579-1 2017-02 | Microbiology of food and animal feeding stuffs - Horizontal method for the detection, enumeration and serotyping of Salmonella. Part 1: Detection of Salmonella spp. | A |
| ISO 6888-2 1999-02 Amd 1:2003 | Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 2: Technique using rabbit plasma fibrinogen agar medium. Amd. 1:2003 Inclusion of precision data | A |
| ISO 6888-3 2003-03 | Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 3: Detection and MPN technique for low numbers <i>(Modification: Here only detection)</i> | A |
| ISO 7251 2005-02 | Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> - Most probable number technique <i>(Modification: Detection with chromogenic culture media: REBECCA+EB)</i> | A |
| ISO 7932 2004-06 | Microbiology of food and animal feeding stuffs -Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> - Colony-count technique at 30 degrees C <i>(Modification: Enumeration with chromogenic culture media: BACARA at 37°C)</i> | A |
| ISO 7937 2004-08 | Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of <i>Clostridium perfringens</i> - Colony-count technique | A |

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| | | |
|------------------------|--|---|
| 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 | A |
| 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 | A |
| ISO 16649-2 2001-04 | Microbiology of food and animal feedingstuffs - 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 (Modification: <i>Enumeration with chromogenic culture media: REBECCA+EB at 37°C</i>) | A |
| ISO 21527-1 2008-07 | Microbiology of food and animal feeding stuffs - Horizontal method for enumeration of yeasts and moulds - Part 1: colony count technique in products with water activity greater than 0.95 | A |
| ISO 21528-1 2004-08 | Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 1: Detection and enumeration by MPN technique with pre-enrichment (Modification: <i>Detection with chromogenic culture media: REBECCA+EB</i>) (withdrawn standard) | A |
| ISO 21528-2 2004-08 | Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of Enterobacteriaceae -Part 2: Colony-count method (Modification: <i>Enumeration with chromogenic culture media: REBECCA+EB</i>) | A |
| ISO 21567 2004-11 | Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Shigella</i> spp. | A |
| SOP MB-019 2014-04 | Horizontal method for the detection of <i>Clostridium perfringens</i> A in foods (Anaerobic incubation in peptone water at 37 °C /24h and the certification to ISO 7937:2004) | A |

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| TEMPO AC bioMérieux Ref. 41113 Certificate N° BIO 12/35-05/13 2013-05 | Automated MPN Method for the enumeration of viable aerobic flora in food samples | A |
| TEMPO EB bioMérieux Ref. 8003 Certificate N° BIO 12/21-12/06 2014-10 | Automated MPN Method for the enumeration of <i>Enterobacteriaceae</i> in food samples | A |
| TEMPO EC bioMérieux Ref. 80004 Certificate N° BIO 12/12-02/05 2012-11 | Automated MPN Method for the enumeration of <i>Escherichia coli</i> in food samples | A |
| TEMPO TC bioMérieux Ref. 80006 Certificate N° BIO 12/17-12/05 2013-10 | Automated MPN Method for the enumeration of Coliforms in food samples | A |
| TEMPO STA bioMérieux Ref. 80002 Certificate N° BIO 12/28-04/10 2014-01 | Automated MPN Method for the enumeration of Staphylococci coagulase positive in food samples | A |
| TEMPO BC bioMérieux Ref. 80106 Certificate N° 2014 LR 47 2015-12 | Automated MPN Method for the enumeration of <i>Bacillus cereus</i> in food samples | A |
| TEMPO YM bioMérieux Ref. 80001 2016-04 | Automated MPN Method for the enumeration of yeasts & moulds in food samples | A |
| TEMPO LAB bioMérieux Ref. 80071 2016-04 | Automated MPN Method for the enumeration of Lactic Acid Bacteria in food samples | A |

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6 Molecular biological analyses in foodstuffs and animal feeding stuffs

6.1 Enrichment procedures, determination of specific pathogens by real-time-PCR *

| | | |
|---|--|---|
| ISO/TS 13136 2012-11 | Microbiology of food and animal feed - Real-Time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens - horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) and the determination of O157, O111, O26, O103 and O145 serogroups (Modification: Including serogroup O104) | A |
| ISO/TS 15216-2 2013-03 | Microbiology of food and animal feed - horizontal method for determination of hepatitis a virus and norovirus in food using RT-PCR - Part 2: Method for qualitative detection | A |
| BVL L 00.00-95 2006-12 | Qualitative detection of Listeria monocytogenes in foodstuff - PCR-method (Modification: Detection by RT-PCR, Determination of Listeria spp.) | A |
| BVL L 00.00-98 2007-04 | Qualitative detection of Salmonella in foodstuff - Real-time PCR-method | A |
| Mericon Shigella spp. Mat. No 1064954 and 1064450 QIAGEN 2016-02 | Detection of pathogens in food and animal feed samples using real-time PCR. Detection of Shigella spp. | A |

6.2 Qualitative and quantitative determination of genetically modified organisms by real-time-PCR *

| | | |
|---|--|---|
| ISO 21570 2005-11 | Foodstuffs - Method of analysis for the detection of genetically modified organisms and derived products - Quantitative nucleic acid based methods | A |
| SureFood® GMO SCREEN (P35S, TNOS and P34S-FMV) | GMO triple screening, detection of P35S, TNOS and P34S-FMV in food, feed, plants and seeds by RT-PCR & GMO extraction and Taqman® GMO screening kits | A |

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6.3 Qualitative determination of allergens by real-time-PCR ***

| | | |
|---------------------------|--|---|
| DIN EN 15634-1 2009-04 | Foodstuff - Detection of food allergens by molecular biological methods - Part 1: General aspects <i>(withdrawn standard)</i> | A |
|---------------------------|--|---|

7 Analyses and determination of bacteria in water and water intended for human consumption by microbiological culture methods *

| | | |
|--|---|---|
| ISO 6222 1999-05 | Water quality - Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium | A |
| ISO 7899-2 2000-04 | Water quality - Detection and enumeration of intestinal enterococci - Part 2: Membrane filtration method | A |
| ISO 9308-1 2014-09 | Water quality - Enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora | A |
| ISO 16266 2006-04 | Water quality - Detection and enumeration of Pseudomonas aeruginosa - Method by membrane filtration | A |
| Council Directive 98/83/EC of 3 November 1998 on the quality of water intended for human consumption. Annex III. Point 1 | Clostridium perfringens (including spores) | A |

8 Determination of bacteria and virus in water and water intended for human consumption by real-time-PCR *

| | | |
|-------------------------|--|---|
| ISO/TS 13136 2012-11 | Microbiology of food and animal feed - Real-Time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens - horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) and the determination of O157, O111, O26, O103 and O145 serogroups <i>(Modification: including Serogroup O104; including samples of water}</i> | A |
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| | | |
|---------------------------|--|---|
| ISO/TS 15216-2 2013-03 | Microbiology of food and animal feed - horizontal method for determination of hepatitis a virus and norovirus in food using RT-PCR - Part 2: method for qualitative detection (Modification: <i>norovirus GI and GII only; including samples of water</i>) | A |
| BVL L 00.00-95 2006-12 | Qualitative detection of <i>Listeria monocytogenes</i> in foodstuff - PCR-method (Modification: Detection by RT-PCR in water) | |
| BVL L 00.00-98 2007-04 | Qualitative detection of <i>Salmonella</i> in foodstuff - Real-time-PCR method (Modification: Including water samples) | A |

9 Microbiological analyses of surfaces

9.1 Determination of bacteria by microbiological culture methods *

| | | |
|--|---|---|
| ISO 18593 2004-06 | Microbiology of food and animal feeding stuffs - horizontal methods for sampling techniques from surfaces using contact plates and swabs (<i>withdrawn standard</i>) | A |
| TEMPO AC bioMérieux Ref 41113 Certificate N° BIO 12/35-05/13 2013-05 | Automated MPN Method for the enumeration of viable aerobic flora in surface samples. | A |
| TEMPO EC bioMérieux Ref 80004 Certificate N° BIO 12/12-02/05 2012-11 | Automated MPN Method for the enumeration of <i>Escherichia coli</i> in surface samples. | A |
| TEMPO EB bioMérieux Ref 8003 Certificate N° BIO 12/21-12/06 2014-10 | Automated MPN Method for the enumeration of <i>Enterobacteriaceae</i> in surface samples. | A |

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|---|---|----------|
| <p>TEMPO TC bioMérieux Ref 80006 Certificate N° BIO 12/17-12/05 2013-10</p> | <p>Automated MPN Method for the enumeration of Coliforms in surface samples.</p> | <p>A</p> |
| <p>TEMPO STA bioMérieux Ref. 80002 Certificate N° BIO 12/28-04/10 2014-01</p> | <p>Automated MPN Method for the enumeration of Staphylococci coagulase positive in surface samples.</p> | <p>A</p> |
| <p>TEMPO BC bioMérieux Ref 80106 Certificate N° 2014 LR 47 2015-12</p> | <p>Automated MPN Method for the enumeration of <i>Bacillus cereus</i> in surface samples.</p> | <p>A</p> |
| <p>TEMPO LAB bioMérieux Ref. 80071 2016-04</p> | <p>Automated MPN Method for the enumeration of Lactic Acid Bacteria in surface samples.</p> | <p>A</p> |

9.2 Determination of mould and yeast by microbiological culture methods *

| | | |
|--|--|----------|
| <p>ISO 18593 2004-06</p> | <p>Microbiology of food and animal feeding stuffs - horizontal methods for sampling techniques from surfaces using contact plates and swabs (Modification: <i>commercial sampling kits; also without sampling</i>) (<i>withdrawn standard</i>)</p> | <p>A</p> |
| <p>SOP MB-009 2012-10</p> | <p>Detection and enumeration of indicatory organisms and mould and yeast from hygienic surfaces by flora total count, VRBG count and mould and yeast count (Modification: <i>Commercial culture media</i>)</p> | <p>A</p> |
| <p>TEMPO YM bioMérieux Ref 80001 2016-04</p> | <p>Automated MPN method for the enumeration of yeasts & moulds in surface samples.</p> | <p>A</p> |

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10 Determination of bacteria and virus on surfaces by real-time PCR *

| | | |
|--|---|---|
| ISO/TS 13136 2012-11 | Microbiology of food and animal feed - Real-Time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens - horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) and the determination of O157, O111, O26, O103 and O145 serogroups (Modification: <i>Including Serogroup 0104; including samples of surfaces</i>) | A |
| ISO/TS 15216-2 2013-03 | Microbiology of food and animal feed - horizontal method for determination of hepatitis a virus and norovirus in food using RT-PCR - Part 2: method for qualitative detection (Modification: <i>Including samples of surfaces</i>) (<i>withdrawn standard</i>) | A |
| BVL L 00.00-95 2006-12 | Qualitative detection of Listeria monocytogenes in foodstuff - PCR-method (Modification: Determination of Listeria spp., detection by RT-PCR, determination on surfaces) | A |
| BVL L 00.00-98 2007-04 | Qualitative detection of Salmonella in foodstuff - Real-time-PCR-method (Modification: including surface samples) | A |
| Mericon Shigella spp, Mat.No.1064954 and 1064450 QIAGEN 2016-02 | Detection of pathogens in food and animal feed samples using real-time PCR. Detection of Shigella spp. (Modification: <i>Including samples of surfaces</i>) | A |

11 Determination of bacteria in soil by real-time PCR *

| | | |
|---------------------------|--|---|
| ISO/TS 13136 2012-11 | Microbiology of food and animal feed - Real-Time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens - horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) and the determination of O157, O111, O26, O103 and O145 serogroups (Modification: <i>including Serogroup 0104; including samples of soils; applying commercial RT-PCR-Kit</i>) | A |
| BVL L 00.00-95 2006-12 | Qualitative detection of Listeria monocytogenes in foodstuff - PCR-method (Modification: Detection by RT-PCR, determination on soil) | A |

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| | |
|--|---|
| BVL L 00.00-98 2007-04 | Analysis of foodstuff - Qualitative detection of Salmonella in A food - Real-time PCR-method (Modification: <i>Including soil samples</i>) |
| Mericon Shigella spp, Mat.No.1064954 and 1064450 QIAGEN 2016-02 | Detection of pathogens in food and animal feed samples using A real-time PCR. Detection of Shigella spp. (Modification: <i>including samples of soil</i>) |

12 Physical-chemical, chemical, sensorial and enzymatic analyses of foodstuffs ***

| | | |
|-----------------------------|---|------|
| BVL L 00.00-46/2 1999-11 | Determination of sulfite in food; Part 2: Enzymatic method | A, B |
| BVL L 00.90-6 2015-06 | Sensorial methods - Simple descriptive analysis | A, B |
| BVL L 26.04-3 1987-06 | Control of pH in the liquid medium or the brine of sauerkraut (Modification: Also liquid medium or brine of canned food) | A, B |
| BVL L 26.04-4 1987-06 | Determination of the titratable acidity (total acidity) in the liquid medium or brine of sauerkraut (Modification: Also liquid medium or brine of canned food) | A, B |
| BVL L 29.00-2 1999-11 | Determination of sulfites in fresh fruit | A, B |
| SOP SP-018 2014-04 | Determination of sulfites by enzymatic method in food | A, B |
| SOP SP-019 2014-04 | Determination of pH in vegetables, fruit and food and related products | A, B |
| SOP SP-020 2015-04 | Determination of acidity in vegetables, fruit and food and related products | A, B |
| SOP SP-21 2014-04 | Determination of Brix degree in vegetables, fruit and food and related products by titration | A, B |

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13 Physical, physical-chemical and chemical analyses of water and stagnant water ***

| | | |
|-----------------------------|--|------|
| DIN 38404-C 4 1976-12 | Determination of temperature | A |
| ISO 10304-1 2007-08 | Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate | A |
| DIN EN ISO 10523 2012-04 | Water quality - Determination of pH | A |
| SOP SP-026 2014-09 | Determination of temperature and electric conductivity in water | A, B |

Abbreviations used:

| | |
|------|---|
| BVL | Bundesamt für Verbraucherschutz und Lebensmittelsicherheit (Federal Office of Consumer Protection and Food Safety) |
| DFG | Deutsche Forschungsgemeinschaft (German Research Foundation) |
| DIN | Deutsches Institut für Normung e. V. (German Institute for Standardisation) |
| EN | Europäische Norm (European Standard) |
| IEC | International Electrotechnical Commission |
| ISO | International Organisation for Standardisation |
| LFGB | Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (German Food, Consumer Goods and Feedstuffs Code) |
| SOP | Hausverfahren der Analytica Alimentaria GmbH (In house method of Analytica Alimentaria GmbH) |

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