CERTIFICATE OF ACCREDITATION

This is to attest that

ANALYTICA ALIMENTARIA GMBH

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Testing Laboratory TL-389 and TL-462

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 25, 2019

President

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SCOPE OF ACCREDITATION

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ANALYTICA ALIMENTARIA GMBH

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Accredited to ISO/IEC 17025:2017 *Effective Date August 25, 2019*

Sampling	
COMMISSION DIRECTIVE 2002/63/EC	Community methods of sampling for the official control of pesticide residues in and on products of plant and animal origin
ISO 7002	Agricultural food products - layout for a standard method of sampling from a lot
ISO 18400-101	Soil quality — Sampling - Framework for the preparation and application of a sampling plan
ISO 18400-102	Soil quality — Sampling - Selection and application of sampling techniques
ISO 18400-103	Soil quality — Sampling – Safety
ISO 18400-104	Soil quality — Sampling Strategies
ISO 18400-105	Soil quality — Packaging, transport, storage and preservation of samples
ISO 18400-107	Soil quality — Sampling - Recording and reporting
ISO 18400-201	Soil quality — Sampling - Physical pretreatment in the field
ISO 18400-202	Soil quality — Sampling - Preliminary investigations
ISO 18400-205	Soil quality — Sampling - Guidance on the procedure for investigation of natural, near-natural and cultivated sites
ISO 18593	Microbiology of food and animal feeding stuffs - horizontal methods for sampling techniques from surfaces using contact plates and swabs
ISO 19458	Water quality - sampling for microbiological analysis
SOP SAM-001	Sampling of fruits, vegetables and preserved food in the field or in the pack house for determining pesticide residues
SOP SAM-002	Representative sampling of soils, water for irrigation, substrates and nutritional solutions for determining pesticide residues (based on ISO 5667-1:2006, ISO 5667-3:2018, ISO 5667-4:2016)
SOP SAM-004	Sampling of fruits and vegetables in the field and warehouse for the determination of microbiological parameters
SOP SAM-005	Sampling for microbiological analysis - Irrigation water and water for Industrial Use (based on ISO 19458:2006)

SOP SAM-006	Sampling of soil for microbiological analysis (based on ISO 10381-1:2002)
SOP SAM-007	Sampling of surfaces using contact plates and swabs (based on ISO 18593:2018 Microbiology of the food chain – Horizontal methods for surface sampling)
SOP SAM-008	Sampling of food for the detection of mycotoxins according to the Commission Regulations (EU) no 178/2010, (EU) no 401/2006 and (EU) no 691/2013
Chemistry	
Pesticide Residue Analysis (water, soil, food and plant material including leaves)	
BVL L 00.00-34	Investigation of foodstuffs - modular multimode method for the determination of plant protection products in foodstuffs
BVL L 00.00-38/1	Analysis of foodstuffs - food rich in fat - determination of pesticides and polychlorinated biphenyls (PCB) - part 1: general
BVL L 00.00-38/2	Analysis of foodstuffs - food rich in fat - determination of pesticides and polychlorinated biphenyls (PCB) - part 2: extraction of the fat, pesticides and PCBs and determination of the fat content
BVL L 00.00-38/3	Analysis of foodstuffs - food rich in fat - determination of pesticides and polychlorinated biphenyls (PCB) - part 3: cleaning procedures
BVL L 00.00-38/4	Analysis of foodstuffs - food rich in fat - determination of pesticides and polychlorinated biphenyls (PCB) - part 4: methods for the determination and safeguarding of various substances
BVL L 00.00-49/2	Analysis of foodstuffs - low-fat foodstuffs – determination of dithiocarbamate and thiuram disulphide residues - part 2: gas chromatographic method
BVL L 00.00-113	Analysis of foodstuffs – determination of pesticide residues in plant foods - LC-MS/MS method with methanol extraction and purification at diatomerde
DIN EN 13191-2	Non-fatty foods - determination of bromide residues - part 2: determination of inorganic bromide
DIN EN ISO 10695	Water quality – determination of selected organic nitrogen and phosphorus compounds - gas chromatographic methods (F6)
SOP GC-001	Modular multi-method for determination of pesticide residues with GC/MS in fruits, vegetables and food, inclusive such with high fat content (based on section 64 LFGB 00.00-34 and ASU L 00.00-115)
SOP GC-002	Modular multi-method for determination of pesticide residues with GC/MS in water
SOP GC-003	Modular multi-method for determination of pesticide residues with GC/MS in soils and substrates

SOP GC-009	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)
SOP GC-012	Determination of Bromide with GC/ECD in fruits and vegetables
SOP GCLC-004	GC/MS- and LC-MS/MS-Screening: qualitative and semi- quantitative orientative analysis of plant protection products and fertilizers
SOP GCLC-030	Multi-residue analysis by gas chromatography with mass detector and tandem mass detector (GC-MS/MS) and liquid chromatography with tandem mass detector (LC/MS-MS) on fruits, vegetables and foodstuff by the official QuEChERS-method
SOP IC-017	Determination of anions (NO3, NO2, SO4, SO3, PO4, PO3, Cl and Br) in vegetables, fruits and water by IC with conductivity detector
SOP ICP-029	Determination of Lead, cadmium, arsenic acid, mercury, copper, tin, iron, nickel and manganese in vegetables, fruits and food using ICP-MS SOP LC-005
SOP LC 006	Determination of the plant growth regulators chlormequat, mepiquat, paraquat, diquat and daminozid in plant material and food with LC/MS-MS per in-house method
SOP LC-007	Determinations of nereistoxines (bensultap, cartap, thiocyclam, thiosultapsodium and nereistoxin) with LC-MS/MS per in- house method
SOP LC 010	Determination of ethephone and fosethyl aluminium by liquid chromatography with tandem mass detector (LC/MS-MS) in fruits and vegetables
SOP LC 011	Determination of antibiotics (chloramphenicol and tetracycline) by liquid chromatography with tandem mass detector (LC/MS-MS) in foodstuff, fruits and vegetables
SOP LC-013	Determination of morpholine and ethanolamines in fruits by LC/MS-MS per in-house method
SOP LC 015	Analysis of aflatoxins, (AFLATOXINS B1,B2,G1 y G2) and ochratoxin a by liquid chromatography with tandem mass detector (LC/MS-MS) on cereals, dried fruits, feed and related products
SOP LC 016	Determination of maleic hydrazide in vegetables, fruits and food by LC/MS-MS
SOP LC-022	Determination of-erchlorate and chlorate in vegetables, fruits and food by LC/MS-MS
SOP LC-023	Determination of phosphonates (phosphonic acid salt) in vegetables, fruits, soils, waters and foods by LC/MS-MS
SOP LC-024	Determination of glyphosate and glufosinate by liquid chromatography with mass detector (LC/MS-MS) Tandem in fruits, vegetables, soil, water and food

SOP LC-027	Quick method for the analysis of residues of numerous highly polar pesticides in foods of plant origin involving simultaneous extraction with methanol and LC-MS/MS determination (QuPPe Method)
SOP LC-028	Determination of Guazatine in vegetables, fruit and foodstuffs by LC/MS/MS
SOP LC-031	Analysis of cucurbitacins by liquid chromatography with tandem mass detector (LC/MS-MS) on fruits, vegetables and foodstuff
SOP LC-032	Determination of paraquat in vegetables, fruits, oilseeds and foodstuff by liquid chromatography with tandem mass detector (LC/MS-MS)
SOP LC-033	Determination of diquat in vegetables, fruits, oilseeds and foodstuff by liquid chromatography with tandem mass detector (LC/MS-MS)
SOP LC-38	Analysis of acrylamide residues in vegetables and food by liquid chromatography by tandem mass detector (LC/MS-MS)
SOP SP-018	Determination of sulfites by enzymatic method in food (based on §35 LMBG 00.00-46/2)
SOP SP-019	Determination of pH in vegetables, fruits and food and related products (based on §35 LMBG 26.04-3)
SOP SP-020	Determination of acidity in vegetables, fruits and food and related products (based on §35 LMBG 26.04-4)
SOP SP-021	Determination of brix degree in vegetables, fruits and food and related products
SOP SP-025	Determination of pH in water
SOP SP-026	Determination of temperature and electrical conductivity in water
**SOP Q-TOF-035	Determination of the plant growth regulators chlormequat, mepiquat, paraquat, diquat and daminozid in plant material and food with LC/Q-TOF per in-house method
SOP Q-TOF-036	Determination of post-harvest treatment substances in fruits and vegetables by LC/Q-TOF
Microbiology Analysis (food, water, soils and swabs)	
*ISO 9803-1	Water quality-Enumeration of *Escherichia coli* and coliform bacteria. Part 1: Membrane filtration method for waters with low bacterial background flora
*SOP AL-001	Food products. Detection of allergens using molecular biological methods. (Based on UNE EN 15634:2009-04)
*SOP-MB-001	Microbiology of food for consumption, human and animal nutrition - Real Time Polymerase Chain Reaction - method based on the detection of pathogens in food - horizontal method for the detection of Escherichia coli (STEC) from Shiga toxin producing to the Serogroup O157, O26, O 103, O 111 and O 145 (modification: including samples of water, surfaces and soils; including Serogroup O104; applying commercial rt-pcr-kit taqman® stec o104 applied biosystems, ref: 4485084)

*SOP-MB-002	Detection of *salmonella spp.* in foods. Method for PCR in real time (modification: including samples of water, surfaces and soils)
*SOP-MB-003	Detection of *listeria monocytogenes* in foods. Procedures by pcr. (modification: detection with rt-pcr; including samples of water, surfaces and soils)
*SOP-MB-004	Enumeration of total coliform and E.Coli in food by plate count and chromogenic reagent (based on ISO 4832:2006 and ISO 16649-2:2001)
*SOP-MB-005	Enumeration of *Enterobacteriacea*e in food and animal feed by colony count and chromogenic culture media (based on ISO 21528-2:2004)
*SOP-MB-006	Enumeration of coagulase positive staphylococci in food and animal feed by colony count and agar culture media (based on ISO 6888-2:1999)
*SOP-MB-008	Detection and enumeration of intestinal enterococci in water by membrane filtration (based on ISO 7899- 2:2001)
*SOP-MB-009	Detection and Enumeration of indicatory organisms and mold and yeast from hygienic surfaces by flora total count, VRBG count and mold and yeast count (based on ISO 18593:2018)
*SOP-MB-011	Detection and enumeration of clostridium perfringens in water samples (*Council Directive 98/83/EC November 1998 on the quality of water intended for human consumption. Annex III. Point 1: Clostridium perfringens (including Spores)*
*SOP-MB-012	Water quality - enumeration of culturable microorganisms (based on ISO 6222)
*SOP-MB-013	Microbiology of food and animal feeding stuffs - horizontal method for the detection of *Shigella spp* (based on ISO 21567)
*SOP-MB-014	Microbiology of food and animal feeding stuffs. Horizontal method for the detection of *Salmonella spp*. (based on ISO 6579: 2017
*SOP-MB-015	Microbiology of food and animal feeding stuffs - horizontal method for the detection of *Listeria monocytogenes* and *Listeria spp* (based on ISO 11290:2017. Part1: Detection method. Part 2: Enumeration method)
*SOP-MB-016	Microbiology of food and animal feeding stuffs - horizontal method for the enumeration of *Clostridium perfringens* (based on ISO 7937)
*SOP-MB-017	Microbiology of food and animal feeding stuffs - horizontal method for the enumeration of microorganisms (based on ISO 4833)
*SOP-MB-018	Microbiology of food and animal feeding stuffs - horizontal method for the detection of coagulase-positive staphylococci (based on ISO 6888-3)
*SOP-MB-019	Horizontal method for the detection of *clostridium perfringens* in foods
*SOP-MB-020	Microbiology of food and animal feeding stuffs - horizontal method for the detection of *Enterobacteriaceae* (based on ISO 21528-1)
*SOP-MB-021	Microbiology of food and animal feeding stuffs - horizontal method for the detection of *Escherichia coli* (based on ISO 7251)

*SOP-MB-022	Microbiology of food and animal feeding stuffs - horizontal method for the enumeration of *bacillus cereus* (based on ISO 7932)
*SOP-MB-023	Detection of Norovirus GI and GII in vegetables, shellfish, water and surfaces (based on ISO/TS 15216-2:2013. Microbiology of food and animal feed. Horizontal method for determination of Hepatitis A virus and Norovirus in food using real-time RT-PCR - Part 2: Method for qualitative detection)
*SOP MB-024	ISO 21527:2008. Microbiology of food and animal feeding stuffs. Horizontal method for the enumeration of yeasts and molds Part 1: Colony count technique in products with water activity greater than 0,95. Part 2: Colony count technique in products with water activity less than or equal 0,95.
*SOP MB-025	Detection of *Shigella spp* in food, surfaces and soils using RT-PCR. (Modification of ISO 21567 for detection using RT-PCR)
*SOP MB-026	Detection of *listeria spp* in food and surfaces samples. (modification: detection with rt-pcr; including samples of surfaces)
*SOP MB- 027	TEMPO AC (Biomerieux Ref: 411113) Certificate No BIO 12/35-05/13 2013-05. Automated MPN method for enumeration of viable aerobic flora in food and surfaces samples
*SOP MB-028	TEMPO EB (Biomerieux Ref: 80003) Certificate Nº BIO 12/21-12/06 2014-10. Automated MPN method for enumeration of *Enterobacteriacea*e in food and surfaces samples
*SOP MB-029	TEMPO EC (Biomerieux Ref: 80004) Certificate Nº BIO 12/12-02/05 2012-11. Automated MPN method for enumeration of *Escherichia coli* in food and surfaces samples
*SOP MB-030	TEMPO TC (Biomerieux Ref: 80006) Certificate Nº BIO 12/17-12/05 2013-10. Automated MPN method for enumeration of Total Coliforms in food and surfaces samples
*SOP MB-031	TEMPO STA (Biomerieux Ref: 80002) Certificate Nº BIO 12/28-04/10 2014-01. Automated MPN method for enumeration of *Staphylococci* Coagulase Positive in food and surfaces samples
*SOP MB-032	TEMPO BC (Biomerieux Ref: 80106) Certificate Nº 2014LR47 2015-12. Automated MPN Method for enumeration of *Bacillus cereus* in food and surfaces samples
*SOP MB-033	TEMPO YM (Biomerieux Ref: 80001) 2016-04. Automated MPN Method for enumeration of Molds and Yeasts in food and surfaces samples
*SOP MB-034	TEMPO LAB (Biomerieux Ref: 80071) 2016-04. Automated MPN Method for enumeration of Lactic Acid Bacteria in food and surfaces samples
*SOP MB-035	ISO 16266:2006. Water Quality. Detection and enumeration of *Pseudomonas aeruginosa*. Method by membrane filtration

GMO Analysis (food, feed, plants and seeds)	
*SOP-GMO-001	GMO triple screening, detection of P35S, TNOS and P34S- FMV in food, feed, plants and seeds by RT-PCR & GMO gmoextraction and Taqman® GMO screening kits
*SOP-GMO-002	Detection and identification of roundup ready soya - method for real-time PCR (based on ISO 21570: annex C2)
*SOP-GMO-003	Detection and identification of MON810 Corn - method for real-time PCR (based on ISO 21570: annex C5)
*SOP-GMO-004	Quantification of roundup ready soya - method for real-time PCR (based on ISO 21570: annex C2)
*SOP-GMO-005	Quantification of MON810 Corn - method for real-time PCR (based on ISO 21570: annex C5)

*TL-389 Almeria lab only
**TL-462 Berlin lab only

ASU: Official collection of investigation procedures according to § 64 LFGB

BVL: Federal Office of Consumer Protection and Food Safety (German)