

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 014**

of **Stichting Wageningen Research**
Wageningen Food Safety Research (WFSR)

This annex is valid from: **26-06-2024** to **01-11-2025**

Replaces annex dated: **10-04-2024**

Location(s) where activities are performed under accreditation

Head Office

Akkermaalsbos 2
 6708 WB
 Wageningen
 The Netherlands

Location	Abbreviation/ location code
Akkermaalsbos 2 6708 WB Wageningen The Netherlands	W

No.	Material or product	Type of activity ¹	Internal reference number	Location
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Pre-treatment methods

a.	Feed and raw feed materials, food and raw food materials	Isolation of DNA and transfer of isolated DNA to compatible samples by Sanger sequences to obtain DNA barcodes <i>(the corresponding sequencing is structurally performed by another accredited laboratory)</i>	SOP A1224 in-house method	W
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Organic analyses

1	Milk fat	Detection of foreign fats by analysis of triglycerides – Capillary gas chromatography	SOP N0294 ISO 17678	W
2	Food and food products	Determination of the content of melamine and cyanuric acid - LC-MS-MS	A1193 in-house method	W

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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3	Animal and vegetable fats and oils	Determination of the content of methyl esters of fatty acids and the calculation of the sum of the contents of saturated and mono- and polyunsaturated fatty acids, and omega-3 and omega-6 ; GC FID	SOP A0712 NEN-EN-ISO 12966-2 and EN 12966-4	W
4	Infant/follow-on formula and vegetable fats and oils	Determination of the content erucic acid; GC-FID	SOP A1325 in-house method	W
5	Ice cream, whipped cream, pudding, baby food and minced meat	Determination of the content of quaternary ammonium compounds LC-MS/MS	CHE01-WV102 in-house method	W
6	Food	Determination of the content of cereulide, toxine of Bacillus cereus, LC-MS/MS	CHE01-WV879 in-house method	W
7	Fish and fishproducts, cheese	Determination of the content of histamine; HPLC, fluorescence detection	CHE01-WV103 in-house method	W
8	Fish	Determination of the content of ascorbic acid; HPLC-UV	SOP-2078 in-house method	W
9	Soy sauce	Determination of the content of 3-chloro-1,2-propanediol; GC-MS/MS	CHE01-WV804 in-house method	W
10	Agricultural and horticultural products, food and products of animal origin	Determination of the content of perchlorate en chlorate; UPLC-MS/MS	CHE01-WV534 in-house method	W
11	Animal by-products (bone meal and fats)	Determination of the content of glyceroltriheptanoate (GTH); LC-MS/MS	CHE01-WV514 in-house method	W
12	Fish	Determination of the content of carbon monoxide in the vapor phase of gas-treated fish, GC-FID	CHE01-WV502 in-house method	W
13	Palm oil, spices and sauces	Determination of the content of Sudan-I, II, III, IV; UPLC-MS/MS	CHE01-WV840 in-house method	W

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14	Vegetable oils	Determination of the content of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene and the sum of these PAH; HPLC fluorescence-detection	CHE01-WV863 in-house method	W
15		Determination of the specific extinction as a measure of quality, spectrophotometry	CHE01-WV586 in-house method	W
16	Cannabis plant material and derived products (hashish)	Determination of the content of cannabinoids (CBD, CBDA, THC, THCA, CBN, CBG, CBGA); LC-UV	SOP-A-1383 in-house method	W
17	Cannabis seeds and derived products (oil)	Determination of the content of cannabinoids (CBD, CBDA, THC, THCA, CBN, CBG, CBGA); LC-MS/MS	SOP-2022 in-house method	W
18	Foods	Determination of the content of MOSH and MOAH- on-line LC-GC-FID <i>MOSH: total MOSH C10-C50 and the MOSH-fractions C10-C16, C16-C20, C20-C25, C25-C35 en C35-C50</i> <i>MOAH: total MOAH C10-C50 and the MOAH fractions C10-C16, C16-C20, C20-C25, C25-C35 and C35-C50</i>	SOP-A-1371 in-house method	W

Flexible scope – Organic analyses²

19	Raw materials, food, feed, non-food, biological matrices and water	Screening, determination of the content of and confirmation of the identity of pharmacologically active ingredients (as defined in EU/2022/1644); chromatographic, spectro(photo)metric, fluorescence, mass spectrometric and immunochemical techniques	SOP VAL-0002	W
20	Raw materials, food, feed, non-food, biological matrices and water	Screening, determination of the content of and confirmation of natural toxins; chromatographic, spectro(photo)metric, fluorescence, mass spectrometric and immunochemical techniques	SOP VAL-0002	W

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21	Animal and plant products	Determination of 2,3,7,8-substituted dioxins and dibenzofuranes, non-ortho-, mono-ortho and indicator PCB's with GC-HRMS	SOP VAL-0002	W
22	Oils, fats, meat and fish	Screening and determination of the content of organochlorines; GC-MS/MS	SOP VAL-0002	W
23	Animal and vegetable fat	Screening and determination of the content of PAK (EU-PAK); GC-HRMS	SOP VAL-0002	W
24	Products of animal origin	Multi-method for pesticides, LC-MS/MS	SOP VAL-0002	W
25	Plant protection products (commercial preparations), intermediate products or raw materials intended for the preparation of plant protection products	Determination of the active ingredient content and physicochemical parameters in accordance with CIPAC methods or derived methods. Gas chromatographic, liquid chromatographic, physicochemical or wet chemical techniques.	SOP VAL-0002	W
26	Food, biological and environmental matrices and water	Detection, determination of the content of and confirmation of Per- and Polyfluoralkyl substances (PFAS), chromatographic and spectrometric techniques	SOP VAL-0002	W
27	Products of plant origin and soil	Multi-method pesticides - LC-MS/MS	SOP VAL-0002	W
28	Feed and feed ingredients	Detection and determination of the content of pesticides residues; LC-MS/MS	SOP VAL-0002	W
29		Detection and determination of the content of pesticides and contaminants; GC-MS/MS	SOP VAL-0002	W
30	Feed and food	Detection and determination of the content of hydrocyanic acid; HPLC	SOP VAL-0002	W
31	Foods	Detection and determination of the content of acrylamide; LC-MS ⁿ	CHE01-WV807	W

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32	Products of plant origin	Detection and determination of the content of pesticides: GC-ECD, GC-MS ⁿ and/or (UP)LC-MS ⁿ NL- and mini-Luke-extraction-method	SOP VAL-0002	W
33	Products of plant or animal origin	Detection and determination of the content of pesticides: GC-MS ⁿ and/or (UP)LC-MS ⁿ QuEChERS-Extraction-method	SOP VAL-0002	W
34		Detection and determination of the content of pesticides: GC-MS ⁿ and/or (UP)LC-MS ⁿ Single-Residue and Selective-Multiresidue Methods	SOP VAL-0002	W
Chemometrics				
35	Eggs of chickens	Determination of the carotenoid profile and the corresponding quality mark production system for eggs; HPLC/DAD and multivariation classification	SOP-A1126 in-house method	W
Ionising radiation analysis				
36	Agricultural products	Determination of the activity of gamma emitting radionuclides; semiconductor gamma spectrometry	SOP N0132 NEN 5623	W
37	Animal tissue, food and raw materials, feed and raw materials	Determination of the activity of gamma-emitting radionuclides; gamma spectrometry with NaI detector	SOP2047 in-house method	W
Flexible scope - Radioactivity measurements³				
38	Agricultural products: animal tissue, food and - raw materials, feed and - raw materials, fertilizers, soil and other environmental matrices	Determination of the content of strontium-90 (Bq / kg), liquid scintillation counting	SOP VAL-0002	W

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39	Animal tissue and raw materials, feed and raw materials, fertilizers and environmental matrices	Determination of alpha emitters ²³⁴ U, ²³⁵ U en ²³⁸ U; alfaspectrometry	SOP-VAL002	W
Inorganic and physical analyses				
40	Compound feed and raw materials of compound feed	Determination of moisture content; gravimetric	SOP N0272 Product type 1,2 and 3: EG 152/2009, annex III, part A Product type 4 and 5: in-house method Product type 6: EG 152/2009, annex III, part A	W
41	Milk and milk products	Determination of fat content by Röse Gottlieb; gravimetric	SOP A0756 IDF 1/ISO 1211 (milk) IDF 9/ISO 1736 (milk powder)	W
42		Determination of nitrogen concentration and the calculation of the crude protein content; Kjeldahl method	SOP A0835 NEN-EN-ISO 8968-1	W
43	Meat and meat products	Determination of moisture content; gravimetric	SOP N0118 NEN-ISO 1442	W
44		Determination of nitrogen concentration and the calculation of the crude protein content; Kjeldahl method	SOP A0839 NEN-ISO 937	W
45	Fertilizers	Determination of the sum of nitric and ammoniacal nitrogen according to Devarda	SOP N0371 – Part A to NEN-EN 15476	W
46	Manure and manure products	Determination of total nitrogen content; titrimetric	SOP N0328 NEN 7434 sample pre-treatment SOP N0325 NEN 7430 SOP N0326 NEN 7431 decomposition SOP N0327 NEN 7433	W

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47	Manure and manure products	Determination of the total phosphor content; spectrophotometric	SOP N0329 2e ontwerp NEN 7435:1998 sample pre-treatment SOP N0325 NEN 7430 SOP N0326 NEN 7431 SOP N0327 NEN 7433	W
48	Butter	Determination of non-fat dry matter content; gravimetric	SOP N0357 NEN-EN-ISO 3727-2/IDF 80-2	W
49		Determination of moisture content; gravimetric	SOP N0312 NEN-EN-ISO 3727-1/IDF 80-1	W
50		Determination of fat content; gravimetric	SOP N0388 NEN-EN-ISO 17189/IDF 194	W
51	Animal and Vegetable fats and oils	Determination of moisture content - Gravimetric	SOP N0417 EC/152/2009, annex III, part B	W
52	Milk and milk powder of cows origin	Determination of the alkaline phosphatase activity; fluorophos	SOP N0335 NEN-EN-ISO 11816-1	W
53	Vegetables	Determination of the content of nitrate; continuous flow analysis	CHE01-WV123 in-house method	W
54	Vegetable oils	Determination of the content of free fatty acids (FFA); cold method, expressed as percentage oil acidity, tritrimetry	CHE01-WV584 in-house method	W
55		Determination of the peroxide value, tritrimetry	CHE01-WV585 in-house method	W
56	Food	Detection of sulphur dioxide; colour-reaction	CHE01-WV109 in-house method	W
57		Determination of the content of sulphur dioxide; segmented flow analyse (SFA) with spectrophotometric detection	CHE01-WV110 in-house method	W
58		Determination of the content of sodium nitrate and sodium nitrite; segmented flow analyse (SFA)	CHE01-WV150 in-house method	W

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59	Feed	Determination of the nitrogen content and calculation of the crude protein content; Kjeldahl method	SOP A0584 EG 152/2009, annex III, part C	W
60		Determination of the crude fiber content; Gravimetric	SOP A0836 EG 152/2009, annex III, part I	W
61		Determination of the crude fat content after acidic hydrolysis; Gravimetric	SOP A0732 EG 152/2009, annex III, part H, method B	W
62		Determination of the starch content; Polarimetric	SOP A0731 EG 152/2009, annex III, part L	W

Flexible scope – Inorganic and physical analyses⁴

63	Animal and plant products, water, plant protection products and biocides	Determination of the content of metals; ET-AAS, F-AAS and cold vapour AFS technique	SOP VAL-0002	W
64	Products for human and animal consumption, other plant and animal products and environmental matrices	Determination of the amount of elements; ICP-MS	SOP VAL-0002	W

Microbiological analyses

65	Poultry meat	Screening and group identification of antimicrobial residues (Poultry Scan); microbiological screening	SOP A0710 in-house method	W
66	Animal feed	Screening and group identification of antimicrobial residues; high voltage electrophoresis; microbiological (post) screening	SOP A0508 in-house method	W
67		Screening and group identification of antimicrobial residues; multi plate method; microbiological screening	SOP A0509 in-house method	W

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68	Pre-urine (renal pelvis fluid)	Screening for antimicrobial residues; Nouws Antibiotic Test (NAT-screening); microbiological screening	SOP A0944 in-house method	W
69	Kidney	Screening and identification of antimicrobial residues; Nouws Antibiotic Test (NAT-Kidney); microbiological (post) screening	SOP A0945 in-house method	W
70	Meat	Screening and identification of antimicrobial residues; Nouws Antibiotic Test (NAT-Meat); microbiological (post) screening	SOP A0946 in-house method	W
71	Milk	Screening and identification of antimicrobial residues; multi-plate method	SOP A0717 in-house method	W
72	Eggs	Screening and identification of antimicrobial residues; microbiological screening	SOP A0792 in-house method	W
73	Spleen	Detection of bacteria; breeding method	MIC04-WV013 in-house method	W
74	Food, feed, environmental samples and samples from the primary production stage	Detection of Salmonella; detected/not detected; screening, enrichment and confirmation using real-time PCR	MIC04-WV505 enrichment, screening, isolation NEN-EN-ISO 6579-1 confirmation, in-house method	W
75	Food and feed	Enumeration of coagulase positive Staphylococci at 37 °C; plate count method	MIC04-WV114 NEN-EN-ISO 6888-2	W
76	Animals for slaughter	Enumeration of aerobic and enterobacteriaceae bacteria of the carcass surface; plate count method	MIC04-WV102 NEN-EN-ISO 4833-1 NEN-EN-ISO 21528-2	W
77	Fish, crustaceans and shellfish	Enumeration of Escherchia coli; MPN-method	MIC04-WV109 NEN-EN-ISO 16649-3	W
78	Food, feed and environmental samples	Enumeration of aerobic bacteria at 30°C; plate count method	MIC04-WV101 NEN-EN-ISO 4833-1	W

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79	Food, feed and environmental samples	Enumeration of Enterobacteriaceae at 37°C; plate count method	MIC04-WV106 NEN-EN-ISO 21528-2	W
80	Food and environmental samples from food or feed production	Detection of <i>Listeria monocytogenes</i> ; detected/not detected confirmation; MALDI-TOF	MIC04-WV500 isolation and detection NEN-EN-ISO 11290-1 confirmation Microval 2017LR75 and AOAC-OMA 2017.010	W
81	Food and feed	Enumeration of <i>Escherichia coli</i> ; plate count method	MIC04-WV107 NEN-ISO 16649-2	W
82	Food	Enumeration of <i>Clostridium perfringens</i> ; plate count method Confirmation: MALDI-TOF	MIC04-WV112 isolation NEN-EN-ISO 7937 confirmation in-house method	W
83	Food and feed	Enumeration of <i>Bacillus cereus</i> ; plate count method	MIC04-WV111 NEN-EN-ISO 7932	W
84	Food	Enumeration of <i>Listeria monocytogenes</i> ; plate count method Confirmation; MALDI-TOF	MIC04-WV123 isolation NEN-EN-ISO 11290-2 confirmation Microval 2017LR75 and AOAC-OMA 2017.010	W
85		Detection of <i>Campylobacter</i> spp.; detected/not detected Confirmation; MALDI-TOF	MIC04-WV501 isolation NEN-EN-ISO 10272 confirmation Microval 2017LR74 and AOAC-OMA 2017.09	W
86		Enumeration of Enterobacteriaceae at 35°C for 24 hour: TEMPO EB, automated MPN method	MIC04-WV137 NEN-ISO 21528-2 (AFNOR BIO 12/21-12/06)	W
87		Enumeration of aëroob bacteria at 30°C for 48 hours: TEMPO AC, automated MPN method	MIC04-WV137 NEN-EN-ISO 4833-1 (AFNOR BIO 12/35-05/13)	W
88		Detection of <i>Staphylococcus enterotoxigenus</i> ; dialysis and ELFA test (enzyme-linked fluorescent immunoassay)	MIC04-WV516 NEN-EN-ISO 19020	W

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89	Isolates of Escherichia coli, Salmonella, Enterococci en Campylobacter	Determining the antibiotic sensitivity; VIZION system	MIC04-WV006 ISO 20776-1	W
90	Meat and meat products	The detection of ESBL-producing E.coli; MacConkey agar with cefotaxime; detected/not detected	MIC04-WV525 Protocol Fresh Meat EURL-AR	W
91	Fresh vegetables	Detection of ESBL-producing E.coli; MacConkey agar with cefotaxime; detected/not detected	MIC04-WV525 in-house method	W
92	Water	Detection of bacterial-growth limiting residues; Water Scan	MVO209 in-house method	W
93	Isolates	Serotyping of <i>Salmonella</i> isolates; Check & Trace method	TYP01-WV029 AOAC certificate 121001 OIE certificate 20110106	W
94	Fish, crustaceans and shellfish	Detection of <i>Vibrio parahaemolyticus</i> , <i>Vibrio vulnificus</i> and/or <i>Vibrio cholerae</i> ; detected/not detected Confirmation; real-time PCR	MIC04-WV508 isolation ISO 21872-1 confirmation in-house method	W
95	Farmed fish, fresh herbs and meat	Detection of Extended Spectrum Beta-Lactamases (ESBL's), AmpC and carbapenemase producing <i>Escherichia coli</i> , <i>Enterobacter</i> en <i>Klebsiella</i> ; detected/not detected	MIC04-WV526 in-house method	W
96	Meat and environmental samples	Detection of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA); presence/absence	MIC04-WV511 Protocol EURL-AR	W
97	Food, feed and veterinary samples	Enumeration of thermotolerant <i>Campylobacter</i> spp. at 41,5 °C; plate count method Confirmation; MALDI-TOF	MIC04-WV150 isolation ISO 10272-2 confirmation Microval 2017LR74 and AOAC-OMA 2017.09	W
98	Hemp plant products	Determination of the total number of fungi and yeasts at 22.5 °C, spatula plate method	SOP A1401 Pharmacopeia: 20612E: §4-5-1, §5-2-2-1 and §5-2-2-2	W

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99	Hemp plant products	Determination of the total aerobic bacteria and the determination of the number of <i>Staphylococcus aureus</i> at 32.5 °C, spatula plate method	SOP A1402 Pharmacopeia: 20613E: §4-5-1, §4-5-2 20612E: §4-5-1, §5-2-2-1 and §5-2-2-2	W
Flexible scope - Microbiological analyses²				
100	Bacteriological isolates	Confirmation of bacteriological isolates; MALDI-TOF	SOP VAL-0002	W
Microscopic analyses				
101	Agricultural products	Microscopic identification of undesirable admixtures	SOP A0680 in-house method	W
102	Agricultural products	Microscopic identification and composition	SOP A0696 in-house method	W
103		Pre-treatment of samples for microscopic research	SOP A0678 in-house method	W
104	Rice	Determining of the average length, average width, length/width ratio and the level of fracture; micrometer	SOP A0697 in-house method	W
105		Identifying paddy, husked, half white and full white rice, microscopic	SOP A0728 in-house method	W
106	Animal feed (inclusive raw materials)	Screening and determination of foreign matter; visual, microscopic, gravimetric	SOP A1093 in-house method	W
107	Animal feed (inclusive raw materials)	Determination of some Ambrosia spp. in seed mixtures; visual, microscopic, gravimetric	SOP A1102 in-house method	W
108	Animal feed	Identification of animal proteins - Microscopic	N0447 (EC) 152/2009	W
109	Milk	Enumeration of somatic cells; microscopic	SOP N0421 ISO 13336-1	W
110	Animal feed (inclusive raw feed materials)	Determination of foreign matter; visual and gravimetric	A1013 in-house method	W

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Biochemical and molecular biological analyses				
111	Animal feed and fats	Screening of dioxins and dioxin-like PCB's using the CALUX bioassay	SOP A0877, A0561, A0880 own methods	W
Flexible scope – Biochemical and molecular biological analyses⁵				
112	Feed and related raw feed materials, foods and related raw food materials	Detection and determination of genetically modified organisms and derived products; (real time) PCR	SOP VAL-0002	W
113	Feed and related raw feed materials, foods and related raw food materials	Species identification; (real-time) PCR	SOP VAL-0002	W
114	Nucleotide sequence data	Identification of species by comparing the reference genome data; bio informatic data analysis	SOP VAL-0002	W
115	Urine and animal feed (inclusive raw materials)	Screening on hormonal activity; yeast bioassay with fluorescence measurement	SOP VAL-0002	W
116	Food, products of animal origin, environmental	Detection of food-related micro-organisms; real-time PCR	SOP VAL-0002	W
117	samples and samples from the primary production stage	Detection and quantification of viral RNA; real-time PCR	SOP VAL-0002	W

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