Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 059**

of   **T.L.R. Technisch Laboratorium Rotterdam B.V.**

This annex is valid from: **09-03-2022** to **01-02-2024**   Replaces annex dated: **07-02-2022**

Location(s) where activities are performed under accreditation

Head Office

Handelsweg 70
2988 DB
Ridderkerk
The Netherlands

Location	Abbreviation/ location code
Handelsweg 70 2988 DB Ridderkerk The Netherlands	R1
Handelsweg 60 2988 DB Ridderkerk The Netherlands	R2

No.	Material or product	Type of activity[1]	Internal reference number	Location
		Sampling		
a.	Vegetables, fruits and herbs and spices	Sampling for pesticide residue monitoring (with internal reference number TL512.40)	TL102.01 EU 2002/63	R1, R2

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[1] If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on 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.

> This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,
>
> J.A.W.M. de Haas

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No.	Material or product	Type of activity[1]	Internal reference number	Location
**Sample pre-treatment for several parameters**				
- -	Solid mineral fuels	Sample preparation of solid mineral fuels for analysis of physical/chemical parameters	TL222.02 NEN-ISO 18283 NEN-ISO 13909-4	R1
- -	Biomass (wood, residues from food and tobacco industry for generating energy, solid biofuels and solid secondary biofuels	Sample preparation of biomass, solid biofuels and solid secondary biofuels for analysis of physical/chemical parameters	TL272.01 NEN-EN-ISO 14780 NEN-EN 15443	R1
**Inorganic analyses (wet-chemical/physical)**				
1.	Animal feeding stuffs	Determination of moisture (4 hours drying at 103°C); gravimetric method	TL312.01A EC 152/2009 Annex III-A VDLUFA III (3.1)	R1, R2
2.	Raw materials for animal feeding stuffs	Determination of moisture (4 hours drying at 103°C); gravimetric method	TL312.01A own method	R1, R2
3.	Cereals, flours, groats and meal	Determination of moisture (2 hours drying at 130°C); gravimetric method	TL312.01C EC 152/2009 Annex III-A VDLUFA III (3.1)	R1, R2
4.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of moisture (2 hours drying at 130°C); gravimetric method	TL312.01C own method	R1, R2
5.	Compound feeding stuffs containing more than 4% of sucrose or lactose and compound feeding stuffs containing more than 25% of mineral salts including water of crystallisation	Determination of moisture (at 80°C in a vacuum oven); gravimetric method	TL312.01D TL312.01B EC 152/2009 Annex III-A VDLUFA III (3.1)	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
6.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of moisture (at 80°C in a vacuum oven); gravimetric method	TL312.01D TL312.01B own method	R1, R2
7.	Meat and meat products	Determination of the content of moisture; Gravimetric method	TL312.01F NEN-ISO 1442	R1, R2
8.	Fish and fish products	Determination of the content of moisture; Gravimetric method	TL312.01F own method	R1, R2
9.	Single animal feed of plant origin	Determination of crude fat (direct extraction); gravimetric method	TL312.02A EC 152/2009 Annex III-H, method A VDLUFA III (5.1.1), procedure A	R1, R2
10.	Raw material for animal feeding stuffs and animal feeding stuffs	Determination of crude fat (direct extraction); gravimetric method	TL312.02A own method	R1, R2
11.	Single animal feed of animal origin, all composed feeding stuffs and products of which the fat content cannot be obtained without acid hydrolysis	Determination of fat (acid hydrolysis); gravimetric method	TL312.02B EC 152/2009 Annex III-H, method B VDLUFA III (5.1.1), procedure B	R1, R2
12.	Raw material for animal feeding stuffs and animal feeding stuffs	Determination of fat (after acid hydrolysis); gravimetric method	TL312.02B own method	R1, R2
13.	Meat and meat products	Determination of the content of fat (after acid hydrolysis); gravimetric method	TL312.02D NEN-ISO 1443	R1, R2
14.	Fish and fish products	Determination of the content of fat (after acid hydrolysis); gravimetric method	TL312.02D own method	R1, R2
15.	Animal feeding stuffs	Determination of crude protein; titrimetric method	TL312.03A EC 152/2009 Annex III-C VDLUFA III (4.1.1)	R1, R2

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16.	Raw materials for animal feeding stuffs	Determination of crude protein; titrimetric method	TL312.03A own method	R1, R2
17.	Soybeans and soybean products	Determination of Protein Dispersibility Index (PDI); titrimetric method	TL312.03B AOCS Official method Ba 10-65	R1, R2
18.	Meat and meat products	Determination of the nitrogen content (calculated as protein); titrimetric method	TL312.03C NEN-ISO 937	R1, R2
19.	Fish and fish products	Determination of the nitrogen content (calculated as protein); titrimetric method	TL312.03C own method	R1, R2
20.	Oil seeds and raw material for animal feeding stuffs	Determination of the content of crude protein; DUMAS	TL312.03G NEN-EN-ISO 16634-1	R1, R2
21.	Cereals, legumes and ground grain products	Determination of the content of crude protein; DUMAS	TL312.03G NEN-EN-ISO 16634-2	R1, R2
22.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of crude fibre content; gravimetric method	TL312.04A NEN-EN-ISO 6865 EC 152/2009 Annex III-I VDLUFA III (6.1.1)	R1, R2
23.	Animal feeding stuffs	Determination of crude ash; gravimetric method	TL312.05 EC 152/2009 Annex III-M VDLUFA III (8.1)	R1, R2
24.	Raw materials for animal feeding stuffs	Determination of crude ash; gravimetric method	TL312.05 own method	R1, R2
25.	Meat and meat products	Determination of the content of ash; gravimetric method	TL312.05B NEN-ISO 936	R1, R2
26.	Fish and fish products	Determination of the content of ash; gravimetric method	TL312.05B own method	R1, R2
27.	Animal feeding stuffs	Determination of starch; polarimetric method	TL312.06A EC 152/2009 Annex III-L VDLUFA III (7.2.1)	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
28.	Raw materials for animal feeding stuffs	Determination of starch; polarimetric method	TL312.06A own method	R1, R2
29.	Animal feeding stuffs	Determination of sugar; titrimetric method	TL312.07 EC 152/2009 Annex III-J, VDLUFA III (7.1.1)	R1, R2
30.	Raw materials for animal feeding stuffs	Determination of sugar; titrimetric method	TL312.07 own method	R1, R2
31.	Animal feeding stuffs	Determination of ash insoluble in hydrochloric acid (sand/silica); gravimetric method	TL312.05 EC 152/2009 Annex III-N	R1, R2
32.	Other raw materials for animal feeding stuffs	Determination of ash insoluble in hydrochloric acid (sand/silica); gravimetric method	TL312.05 own method	R1, R2
33.	Animal and vegetable fats and oils	Determination of acid value and acidity (free fatty acid / FFA); titrimetric method	TL382.10A ISO 660 Method 9.1 NEN-EN 14104	R1, R2
34.		Determination of moisture and volatile matter content; gravimetric method	TL382.15 NEN-EN-ISO 662	R1, R2
35.		Determination of iodine value; titrimetric method	TL382.14 ISO 3961 NEN-EN 14111	R1, R2
36.	Animal and vegetable fats and oils	Determination of unsaponifiable matter; diethyl ether extraction	TL382.19 NEN-EN-ISO 3596	R1, R2
37.		Determination of peroxide value; titrimetric method	TL382.24A NEN-EN-ISO 3960	R1, R2
38.		Determination of insoluble impurities content; gravimetric method	TL382.22 NEN-EN-ISO 663	R1, R2
39.		Determination of saponification value; titrimetric method	TL382.28 NEN-EN-ISO 3657	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
40.	Soybean products	Determination of urease activity; titrimetric method	TL312.22 ISO 5506 NEN 3557	R1, R2
41.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of urease activity; titrimetric method	TL312.22 own method	R1, R2
42.	Fish and fish products	Determination of the content of total volatile basic nitrogen (TVB-N); titrimetric method	TL312.24 EU2074/2005 section II, chapter III	R1, R2
43.	Vegetables and vegetable products	Determination of nitrate; ion-exchange chromatography	TL412.11 NEN-EN 12014-2	R1, R2
44.	Fruits	Determination of nitrate; ion-exchange chromatography	TL412.11 own method (analysis NEN-EN 12014-2)	R1, R2
45.	Cereals, wheat, rye and their flours	Determination of the falling number; Hagberg-Perten	TL312-09 NEN-EN-ISO 3093	R1, R2
46.	Food	Determination of sulfite; Monier Williams	TL412.10 NEN-EN 1988-1	R1, R2
47.	Animal feeding stuffs and raw materials for animal feeding stuffs	Determination of fluoride (F) and chloride (Cl); ion-exchange chromatography	TL412.14 own method	R1, R2
48.	Cereals, fruits and vegetables	Determination of inorganic bromide (Br); ion-exchange chromatography	TL412.14 NEN-EN 13191-2	R1, R2
49.	Animal feeding stuffs	Determination of fluoride content after hydrochloric acid treatment; ionsensitive electrode method (ISE)	TL412.18 NEN-EN 16279	R1
Inorganic analyses (elementanalyses)				
50.	Foodstuffs	Determination of iodine; ICP-MS	TL412.12D NEN-EN 15111	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
51.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of iodine; ICP-MS	TL412.12D own method (analysis NEN-EN 15111)	R1, R2
52.	Foodstuffs of plant and marine origin	Determination of total inorganic arsenic; HPLC-ICP-MS	TL412.01A NEN-EN 16802 draft	R1, R2
53.	Food, oils and fats	Determination of elements; after digestion (HNO_3) and ICP-MS cadmium (Cd), lead (Pb), arsenic (As)	TL412.12 digestion: NEN-EN 13805 analysis: NEN-EN 15763	R1, R2
54.	Foodstuffs oils and fats	Determination of elements; after digestion (HNO_3) and ICP-MS vanadium (V), cobalt (Co), nickel (Ni)	TL412.12 own method (digestion-NEN-EN 13805)	R1, R2
55.	Raw materials for animal feeding stuffs and animal feeding stuffs, oils and fats	Determination of elements; after digestion (HNO_3) and ICP-MS cadmium (Cd), lead (Pb), arsenic (As), vanadium (V), cobalt (Co), nickel (Ni)	TL412.12 own method	R1, R2
56.	Food, animal feeding stuffs and raw materials for animal feeding stuffs	Determination of the content of elements; after digestion (HNO_3) and ICP-MS sodium (Na), potassium (K), magnesium (Mg), zinc (Zn), calcium (Ca), phosphorus (P), manganese (Mn), aluminium (Al), iron (Fe), copper (Cu), chromium (Cr)	TL412.16 own method	R1, R2
57.	Animal feeding stuffs and raw materials for animal feeding stuffs	Determination of mercury (Hg); direct thermal decomposition CV-AAS	TL412.17 NEN-EN 16277	R1, R2
58.	Foodstuffs	Determination of mercury (Hg); direct thermal decomposition CV-AAS	TL412.17 NEN-EN 15763	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
59.	Animal and vegetable fats and oils	Determination of the content of elements and ICP-MS silver (Ag), arsenic (As), calcium (Ca), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), potassium (K), magnesium (Mg), manganese (Mn), molybdenum (Mo), sodium (Na), nickel (Ni), phosphorus (P), lead (Pb), antimony (Sb), selenium (Se), tin (Sn), titanium (Ti), vanadium (V) and zinc (Zn)	TL412.19 own method	R1, R2

Organic analyses

No.	Material or product	Type of activity[1]	Internal reference number	Location
60.	Animal feeding stuffs, non- fatty crops[1], oleaginous seeds, fats and oils	Determination of the content of PAH's and PCB's; GPC-LC-LVI-GCMS Naphtalene 　　　　　PCB 28 Phenantrene 　　　　　PCB 52 Antracene 　　　　　PCB 101 Fluoranthene 　　　　　PCB 118 Chrysene 　　　　　PCB 153 Acenaphtene 　　　　　PCB 138 Acenaphthylene 　　　　　PCB 180 Fluorene Sum of benzo(k)- and benzo(b)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Benzo(a)anthracene Indeno(1,2,3-cd)pyrene Pyrene Dibenzo(a,h)antracene	TL512.04 own method	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
61.	Food (vegetables and fruits), raw materials for foodstuffs, animal feeding stuffs and raw materials for feeding stuffs	Determination of mycotoxins; LC-MS/MS Deoxynivalenol (DON) / Vomitoxine — α-Zearalenol 3-acetyl-DON — β-Zearalenol Fumonisin B1 — Diacetoxyscripenol DAS) Fumonisin B2 — Zearalenon (ZEA) Aflatoxine B1 — Ochratoxine A (OTA) Aflatoxine B2 — Sterigmatocystin Aflatoxine G1 — HT-2 Toxine Aflatoxine G2 — T-2-Toxine	TL512.03 own method	R1, R2
62.	Apples and apple products	Determination of patulin content; LC-MS/MS	TL512.07 own method	R1, R2
63.	Spices and spice extracts	Determination of dyes; LC-MS/MS Rhodamine B — CAS 81-88-9 Butter yellow — CAS 60-11-7 Fast Garnet GBC — CAS 97-56-3 Para Red — CAS 6410-10-2 Toludine Red — CAS 2425-85-6 Sudan Red G — CAS 1229-55-6 Sudan Red7B — CAS 6368-72-5 Sudan I — CAS 842-07-9 Sudan II — CAS 3118-97-6 Sudan III — CAS 85-86-9 Sudan IV — CAS 85-83-6	TL512.08 own method	R1, R2
64.	Animal feeding stuffs, raw materials for feeding stuffs and milk powder	Determination of melamine and cyanuric acid; LC-MS/MS	TL512.09 own method	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
65.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of dioxins (PCDD's), dibenzufurans (PCDF's), non-ortho-PCB's and mono-ortho PCB's: GC-HRMS *Dibenzo-p-dioxins (PCDD's):* *Non-ortho-PCB's* 2,3,7,8-TCDD PCB 77 1,2,3,7,8-PeCDD PCB 81 1,2,3,4,7,8-HxCDD PCB 126 1,2,3,6,7,8-HxCDD PCB 169 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8 HpCDD *Mono-ortho-PCB's* OCDD PCB 105 PCB 114 *Dibenzofurans (PCDF's)* PCB 118 2,3,7,8-TCDF PCB 123 1,2,3,7,8-PeCDF PCB 156 2,3,4,7,8-PeCDF PCB 157 1,2,3,4,7,8-HxCDF PCB 167 1,2,3,6,7,8-HxCDF PCB 189 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	TL512.10B NEN-EN 16215, EC 771/2017	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
66.	Oils and fats from plant animal origin and eggs	Determination of dioxins (PCDD's), dibenzufurans (PCDF's), non-ortho-PCB's and mono-ortho PCB's: GC-HRMS *Dibenzo-p-dioxins (PCDD's):* *Non-ortho-PCB's* 2,3,7,8-TCDD PCB 77 1,2,3,7,8-PeCDD PCB 81 1,2,3,4,7,8-HxCDD PCB 126 1,2,3,6,7,8-HxCDD PCB 169 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8 HpCDD *Mono-ortho-PCB's* OCDD PCB 105 PCB 114 *Dibenzofurans (PCDF's)* PCB 118 2,3,7,8-TCDF PCB 123 1,2,3,7,8-PeCDF PCB 156 2,3,4,7,8-PeCDF PCB 157 1,2,3,4,7,8-HxCDF PCB 167 1,2,3,6,7,8-HxCDF PCB 189 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	TL512.10B own method (analysis NEN-EN 16215 and EU 644/2017)	R1, R2
67.	Oils and fats from plant origin	Determination of mineral oil (C10-C40); GC-FID	TL512.17 VVR-bundle feed part II OSP 15	R1, R2
68.		Determination of mineral oil (C10-C25); GC-FID	TL512.17 own method (analysis: VVR-bundle feed part II OSP 15)	R1, R2
69.	Raw materials for animal feeding stuffs	Determination of mineral oil (C10-C40); GC-FID	TL512.17 own method (analysis: VVR-bundle feed part II OSP 15)	R1, R2
70.	Non-fatty crops1	Determination of dithiocarbamate and thiuramdisulfide residues (as CS2); GC-MS	TL512.19 NEN-EN 12396-2	R1, R2
71.	Non-fatty food of plant origin	Determination of chlormequat and mepiquat; LC-MS/MS	TL512.12 NEN-EN 15055	R1, R2

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72.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of chlormequat and mepiquat; LC-MS/MS	TL512.12 own method (analysis: NEN-EN 15055)	R1, R2
73.	Foodstuffs of plant origin, glycerine, fatty acids, feed and its raw materials	Analysis of ethanol and methanol; headspace-analysis GC-MS	TL512.32 own method	R1, R2
74.	Crops[3] (except rice and rice products)	Determination of didecyl dimethyl ammonium chloride (DDAC) and benzalkonium-chloride (BAC); LC-MS/MS	TL512.31 own method	R1, R2
75.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of hydrocyanic acid; LC-MS/MS	TL512.30 NEN-EN 16160	R1, R2
76.	Food and feed and their raw materials	Determination of glyphosate; LC-MS/MS	TL512.15 own method	R1, R2
77.	Crops[3], food (including potatoes, vegetables and fruits), foodstuffs (including eggs, meat and fish), raw materials for foodstuffs, food and feed and their raw materials	Determination of polar pesticide content; LC-MS/MS method Phosponic acid, Chlorate, Perchlorate, fosetyl, Ethephon-hydroxy (HEPA), Ethephon, Glufosinate, N-Acetyl-glufosinate.	TL512.18 own method	R1, R2

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78.	Animal feed and animal feedingstuffs	Determination of antibiotics, coccidiostatics en anthelminthics; LC-MS/MS **Antibiotics:** **β-lactam penicillins:** Amoxicillin, Ampicillin, Penicillin G, Penicillin V, Cloxacillin, Dicloxacillin, Nafcillin, Oxacillin, Cefalexin, Cefapirin, Cefquinome, Cefradine, Ceftiofur, Cefuroxime, Cefalotin, Cefazolin, Cefoperazone. **Quinolons:** Ciprofloxacin, Danofloxacin, Difloxacin, Enrofloxacin, Flumequine, Marbofloxacin, Nalidixic acid, Norfloxacin, Oxolinic acid, Sarafloxacin, Cinoxacin. **Macrolids:** Erythromycin, Spiramycin, Tilmicosin, Tylosin, Tylvasolin, Gamithromycin, Josamycin **Fenicols:** Thiamphenicol, Florfenicol, Chloramphenicol **Tetracyclins:** Chlortetracycline, Doxycycline, Oxytetracycline, Tetracycline **Pluromulin:** Tiamulin, Valnemulin **Lincosamids:** Lincomycin **Sulfonamids:** Sulfabenzamide, Sulfachloropyridazine, Sulfadimethoxine, Sulfadiazine (=Sulfapyrimidin), Sulfadimidine (=Sulfamethazin), Sulfadoxine, Sulfamerazine, Sulfamethizole, Sulfamethoxazole, Sulfamethoxypyridazine, Sulfamonomethoxine, Sulfamoxole, Sulfaquinoxaline, Sulfathiazole, Sulfisoxazole, Dapsone. **Other:** Trimethoprim, Zinc Bacitracin **Coccidiostatics:** Clopidol (=Meticlorpindol), Amprolium, Halofuginone, Robenidine, Decoquinate, Salinomycin, Narasin, Maduramicin, Lasalocid, Monensin, Diclazuril, Nicarbazin **Anthelminthics:** Flubendazole **Macrolids/Streptogramins:** Virginiamycin M1, Virginiamycin S1	TL512.38B own method	R1, R2

Microbiological analyses

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79.	Animal feeding stuffs and food	Enumeration of Bacillus cereus at 30°C; streak plate, MYP	TL752.05 NEN-EN-ISO 7932	R1
80.		Enumeration of β-glucuronidase-positive Escherichia coli at 44°C; streak plate, TBX	TL752.06 NEN-ISO 16649-2	R1
81.	Animal feeding stuffs, food and environmental samples	Detection of Salmonella; RVS and MKTTn	TL762.01A NEN-EN-ISO 6579-1	R1
82.	Animal feeding stuffs and food	Detection of Salmonella (qualitative analysis); PCR	TL762.01D NEN-EN-ISO 6579: (AFNOR TRA 02/12-01/09)	R1
83.		Enumeration of micro-organisms (Aerobic plate count) at 30°C; pour plate, PCA	TL752.04 NEN-EN-ISO 4833-1	R1
84.		Enumeration of Enterobacteriaceae at 37°C; pour plate, VRBG	TL752.02 NEN-EN-ISO 21528-2	R1
85.	Food (except garlic), animal feed	Detection of Salmonella; qualitative analysis test real-time PCR	TL762.01E NEN-EN-ISO 6579-1 (Microval 2011-LR40)	R1
86.	Animal feeding stuffs and food products	Enumeration of Enterobacteriaceae at 37°C; colony count technique	TL752.02B NEN-EN-ISO 21528-2: (AFNOR 3M 01/6-09/97)	R1
87.	Food and animal feeding stuffs (product with a water activity >0,95)	Enumeration of yeasts and moulds at 25°C; streak plate DRBC	TL752.03C NEN-ISO 21527-1	R1
88.	Animal feeding stuffs and food (product with a water activity ≤0,95)	Enumeration of yeasts and moulds at 25°C; plate, culture medium DG-18	TL752.03B NEN-ISO 21527-2	R1

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89.	Animal feeding stuffs and food	Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) at 37°C; streak plate, BP-RPF	TL752.09 NEN-EN-ISO 6888-2	R1
90.		Enumeration of Clostridium perfringens at 37°C; pour plate, TSC	TL752.10 NEN-EN-ISO 7937	R1
91.		Enumeration of mesophilic lactic acid bacteria at 30°C; streak plate, MRS	TL752.11 ISO 15214	R1
92.	Food, except dairy products and raw shellfish	Enumeration of micro-organisms (Aerobic plate count) at 30°C, reading after 48 hours; colony count technique	TL752.04B NEN-EN-ISO 4833: (AFNOR 3M 01/1-09/89)	R1
93.	Food	Enumeration of β-glucuronidase-positive Escherichia coli at 42°C; colony count technique	TL752.06B NEN-EN-ISO 16649-2: (AFNOR 3M 01/08-06/01)	R1
94.	Food, except raw shellfish	Enumeration of Coliforms at 37°C; colony count technique	TL752.15 NEN-EN-ISO 4832: (AFNOR 3M 01/2-09/89A)	R1
95.	Animal feeding stuffs and food	Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) at 37°C; colony count technique	TL752.09B NEN-EN-ISO 6888-2 (AFNOR 3M 01/09-04/03B)	R1
96.	Food products and environmental samples	Detection of Listeria monocytogenes; qualitative analysis, half Fraser	TL762.20A NEN-EN- ISO 11290-1 (AFNOR BRD 07/16-01/09)	R1
97.	Animal feeding stuffs and raw materials for feeding stuffs	Detection of Listeria monocytogenes; qualitative analysis, half Fraser	TL762.20A own method (AFNOR BRD 07/16-01/09)	R1
98.	Food products and environmental samples	Enumeration of Listeria monocytogenes; at 37°C; AL	TL752.20B NEN-EN ISO 11290-2 (AFNOR BRD 07/17-01/09)	R1
99.	Animal feeding stuffs and raw materials for feeding stuffs	Enumeration of Listeria monocytogenes; at 37°C; AL	TL752.20B own method (AFNOR BRD 07/17-01/09)	R1

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No.	Material or product	Type of activity[1]	Internal reference number	Location
100.	Salmonella isolates from animal feeding stuffs, food products and environmental samples	Molecular serotyping of *Salmonella*; PCR and DNA-microarray	TL762.14 AOACcertificate 121001 OIEcertificate 20010106	R1
101.	Meat and meat products, potatoes, vegetables and fruits, seeds and beans (except garlic and citrus fruits) and environmental samples (spent irrigation water)	Screening for Shigatoxin producing Shigella and/or E. coli (STEC/EHEC) bacteria; qualitative analysis, real-time PCR	TL762.34 own method	R1
102.		Confirmation and serotyping of pooled and individual E. coli (STEC/EHEC) suspected colonies on stx and eae genes and serotypes (O26, O45, O103, O104, O111, O121, O145, O157, O174); qualitative analysis, real-time PCR and PCR melting curve analysis	TL762.34 own method	R1
103.	Animal feeding stuffs and raw materials for feeding stuffs	Detection of Campylobacter qualitative analysis; Bolton, mCCDA and; chromogene plate	TL762.18 NEN-EN-ISO 10272-1 (Microval MV2008LR12)	R1
104.	Foodstuffs (fruits, vegetables and shell fish)	Qualitative detection of the Norovirus (GI and GII); real-time RT-PCR	TL762.43A/B/C NEN-EN-ISO 15216-2	R1
105.		Qualitative detection of Hepatitis A; real-time RT-PCR	TL762.43A/B/C NEN-EN-ISO 15216-2	R1
106.	Food	Detection of botulinum type A, B, E and F neurotoxin-producing clostridia; real-time-PCR	TL762.50 own method	R1
107.	Human nasal and or throat swabs	Detection of SARS-CoV-2 virus; Real-time RT-PCR	TL762.44 Journal of Clinical Virology 128 (2020 104412 Eurosurveillance, Volume 25, Issue 3, 23, 2020	R1

Analyses allergen

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No.	Material or product	Type of activity[1]	Internal reference number	Location
108.	Raw materials, spices and processed products	Quantitative determination of gluten (gliadin x2); ELISA	TL742.19 AOAC-method 2012.01 (extraction R5-Mendez method)	R1, R2
109.	Food	Quantitative determination of casein; ELISA	TL742.16 own method	R1, R2
110.		Quantitative determination of the allergen soya; sandwich ELISA	TL742.38 own method	R1, R2
111.		Quantitative determination of the allergen peanut; sandwich ELISA	TL742.51 own method	R1, R2

Analyses Genetically Modified organisms

No.	Material or product	Type of activity	Internal reference number	Location
112.	Soybean products	Quantitative analysis of Roundup Ready Soya (GMO); PCR	TL742.08C own method	R1
113.	Singular and pure raw materials (soybean products, maize products, rice products, sugar beet products, flax seed products, rapeseed products, potato products and cotton)	Screening for Genetically Modified Crops (GMO); PCR	TL742.07B own method	R1
114.	Soybean products	Quantitative analysis of Roundup Ready 2 Yield (MON 89788) Soya (GMO); PCR	TL742.67 own method	R

Microscopic analyses

No.	Material or product	Type of activity	Internal reference number	Location
115.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of stone shell content in palm- and coconut products; visually microscopic and gravimetric method	TL612.01 own method	R1
116.		Determination of Datura species content; visually microscopic and gravimetric method	TL612.03 own method	R1

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No.	Material or product	Type of activity[1]	Internal reference number	Location
117.		Determination of product-specific admixture; visually microscopic and gravimetric method	TL612.02 own method	R1
118.		Determination the content of Castor seed husks; visually microscopic and gravimetric method	TL612.04 ISO 5061	R1
119.	Animal feeding stuffs	Determination of the constituents of animal origin; microscopic method	TL612.06 EG 152/2009, Annex VI	R1
120.	Raw materials for animal feeding stuffs	Determination of the constituents of animal origin; microscopic method	TL612.06 own method (analysis EG 152/2009, ANNEX VI)	R1

Solid mineral fuels: Physical / chemical parameters

No.	Material or product	Type of activity[1]	Internal reference number	Location
121.	Coal	Determination of total moisture content; gravimetric method	TL422.01B NEN-ISO 589, Method B1	R1, R2
122.		Determination of the crude swelling number (FSI); comparison method	TL422.08 NEN- ISO 501	R1, R2
123.		Determination of hardgrove grindability index (HGI); gravimetric method	TL422.07 NEN-ISO 5074	R1
124.	Solid mineral fuels	Determination of ash; gravimetric method	TL422.03 NEN- ISO 1171	R1, R2
125.	Coal and cokes	Determination of volatile matter content; gravimetric method	TL422.02 NEN-ISO 562	R1, R2
126.	Solid mineral fuels	Determination of carbon (C), hydrogen (H); element analyser	TL422.05 ASTM D 5373 NEN-ISO 29541	R1, R2
127.		Determination of nitrogen (N); element analyser	TL422.05 NEN-ISO 29541	R1, R2
128.		Determination of sulphur (S); element analyser	TL422.05 own method	R1, R2
129.		Determination of moisture in the analysis test sample; gravimetric method	TL422.01A NEN-ISO 11722	R1, R2

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No.	Material or product	Type of activity[1]	Internal reference number	Location
130.		Determination of gross caloric value; bomb caloric method	TL422.04 NEN-ISO 1928	R1, R2
131.	Coal and cokes	Determination of fusibility of ash; high temperature tube method	TL432.01 NEN-ISO 540	R1, R2
132.	Other solid mineral fuels	Determination of fusibility of ash; high temperature tube method	TL432.01 own method	R1, R2
133.	Solid fuels	Determination of fluoride (F) and chloride (Cl); ion-exchange chromatography	TL412.13 own method	R1, R2
134.	Biomass (wood, residues from food and tobacco industry for generating energy), solid biofuels and solid secondary fuels	Determination of total moisture; gravimetric method	TL422.01C NPR-CEN-TS 15414-1 NEN-EN-ISO 18134-1	R1, R2
135.		Determination of moisture in the analysis test sample; gravimetric method	TL422.01A NEN-EN 15414-3 NEN-EN-ISO 18134-3	R1, R2
136.		Determination of ash; gravimetric method	TL422.03 NEN-EN-ISO 18122 NEN-EN 15403	R1, R2
137.		Determination of volatile matter content; gravimetric method	TL422.02 NEN-EN-ISO 18123 NEN-EN 15402	R1, R2
138.		Determination of carbon (C), nitrogen (N), hydrogen (H); element analyser	TL422.05 NEN-EN 15407 NEN-EN-ISO 16948	R1, R2
139.		Determination of fluoride (F); IC method	TL412.13 own method	R1, R2
140.		Determination of gross caloric value; bomb caloric method and calculation of net caloric value	TL422.04 NEN-EN-ISO 18125 NEN-EN 15400	R1, R2
141.	Fly Ash	Determination of the fineness; wet sieving	TL432.08 own method	R1
142.	Fly Ash	Determination of the L*a*b* colour space; colorimetric method	TL432.09 NEN-EN-ISO/CIE 11664-4	R1

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No.	Material or product	Type of activity[1]	Internal reference number	Location
143.		Determination of free calcium oxide content; titrimetric method	TL432.11 NEN-EN 451-1	R1
144.		Determination of the loss by combustion without correction for the oxidation of sulphides; gravimetric method	TL432.12 NEN-EN 196-2	R1, R2
145.	Solid biofuels and solid secondary fuels	Determination of total content of sulphur (S) and chlorine (Cl); tube furnace and ion-exchange chromatography	TL412.13 NEN-EN-ISO 16994	R1, R2
146.		Determination of ash melting behaviour; characteristic temperatures method	TL432.01B NPR-CEN/TS 15370-1	R1, R2
147.		Determination of mechanical durability of pellets and briquettes; pellets tester	TL272.03 NEN-EN-ISO 17831-1	R1
148.		Determination of bulk density; standard measuring container	TL272.04 NEN-EN-ISO 17828	R1
149.		Determination of particle size distribution; Vibrating screen method using sieve apertures of 3,15 mm and below	TL272.05A NEN-EN-ISO 17827-2	R1
150.		Determination of particle size distribution of disintegrated pellets; disintegration in hot water sieve apertures of 3,15 mm and below	TL272.05B NEN-EN-ISO 17827-2 NEN-EN-ISO 17830	R1
151.		Determination of length and diameter of pellets; calliper	TL612.07 NEN-EN-ISO 17829	R1
152.	All other pellets	Determination of length and diameter of pellets; calliper	TL612.07 own method (analysis: NEN-EN-ISO 17829)	R1
153.	Solid biofuels and solid secondary fuels, coal, cokes and fly ash	Determination of ash composition; after ashing at 815°C, total digestion and ICP-MS sodium (Na), magnesium (Mg), aluminium (Al), silicon (Si), phosphorus (P), potassium (K), calcium (Ca), sulphur (S), titanium (Ti), iron (Fe), manganese (Mn)	TL432.02 own method	R1, R2

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 059**

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No.	Material or product	Type of activity[1]	Internal reference number	Location
154.	Solid biofuels and solid secondary fuels	Determination of various metals; after digestion and ICP-MS cadmium (Cd), lead (Pb), arsenic (As), vanadium (V), cobalt (Co), nickel (Ni)	TL412.12 digestion and analysis: NEN-EN-ISO 16968	R1, R2
155.	Solid biofuels and solid secondary fuels	Determination of mercury (Hg); mercury analyser	TL412.17 NEN-EN-ISO 16968	R1, R2
156.	Solid biofuels	Determination of mercury (Hg); mercury analyser	TL412.17 ASTM D6722-01 NEN-ISO 15237	R1, R2
157.	Solid biofuels and solid secondary fuels	Determination of minor elements copper (Cu), manganese (Mn), zinc (Zn), chromium (Cr), molybdenum (Mo), antimony (Sb), selenium (Se); ICP-MS	TL412.12 NEN-EN-ISO 16968	R1, R2
158.		Determination of minor elements barium (Ba) and iron (Fe); ICP-MS	TL412.12 own method (analysis: NEN-EN-ISO 16968)	R1, R2

Flexible scope Organic analysis[2]

No.	Material or product	Type of activity[1]	Internal reference number	Location
159.	Crops[3], food (including potatoes, vegetables and fruits), foodstuffs, raw materials for foodstuffs, food and feed and their raw materials	Determination of pesticide content; GC-MS/MS and LC-MS/MS method	TL512.40	R1, R2

Flexible scope analyses Genetically Modified organisms[2]

No.	Material or product	Type of activity[1]	Internal reference number	Location
160.	Food and feed and their raw materials	Detection of transformation events (GMO); PCR	TL742.01	R1

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[2] This flexible scope requires the laboratory to maintain a current list of the methods applied under this flexible scope
[3] By crops is meant: Products of plant origin