

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2005
 Registration number: **L 059**

of **TLR Technisch Laboratorium Rotterdam B.V.**

This annex is valid from: **23-01-2019** to **01-02-2020**

Replaces annex dated: **12-12-2018**

Location(s) where activities are performed under accreditation

Head Office

Bankwerkerstraat 16
 3077 MB
 Rotterdam
 The Netherlands

Location	Abbreviation/ location code
Bankwerkerstraat 16 3077 MB Rotterdam The Netherlands	R

No.	Material or product	Type of activity ¹	Internal reference number	Location
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Sampling

a.	Vegetables, fruits and herbs and spices	Sampling for pesticide residue monitoring (activity 158)	TLGG002.01 in accordance to EU 2002/63	R
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Sample pre-treatment for several parameters

b.	Solid mineral fuels	Sample preparation of solid mineral fuels for analysis of physical/chemical parameters	TL222.02 in accordance to NEN-ISO 18283, in accordance with NEN-ISO 13909-4	R
c.	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 in accordance with NEN EN ISO 14780 in accordance with NEN EN 15443	R

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

J.A.W.M. de Haas
 Director of Operations

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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No.	Material or product	Type of activity ¹	Internal reference number	Location
Raw materials for animal feeding stuffs, animal feeding stuffs and food: Physical / Chemical parameters				
1.	Animal feeding stuffs	Determination of moisture (4 hours drying at 103°C); gravimetric method	TL312.01A in accordance with EC 152/2009 Annex III-A in accordance with VDLUFA III (3.1)	R
2.	Raw materials for animal feeding stuffs	Determination of moisture (4 hours drying at 103°C); gravimetric method	TL312.01A own method	R
3.	Cereals, flours, groats and meal	Determination of moisture (2 hours drying at 130°C); gravimetric method	TL312.01C in accordance with EC 152/2009 Annex III-A in accordance with VDLUFA III (3.1)	R
4.	Other 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	R
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 in accordance with EC 152/2009 Annex III-A in accordance with VDLUFA III (3.1)	R
6.	Other 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	R
7.	Meat and meat products	Determination of the content of moisture; Gravimetric method	TL312.01F in accordance with NEN-ISO 1442	R
8.	Fish and fish products	Determination of the content of moisture; Gravimetric method	TL312.01F own method	R
9.	Single animal feed of plant origin	Determination of crude fat (direct extraction); gravimetric method (Soxtherm)	TL312.02A equivalent to EC 152/2009 Annex III-H, method A equivalent to VDLUFA III (5.1.1), procedure A	R

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10.	Other raw material for animal feeding stuffs and animal feeding stuffs	Determination of crude fat (direct extraction); gravimetric method	TL312.02A own method	R
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 in accordance with EC 152/2009 Annex III-H, method B in accordance with VDLUFA III (5.1.1), procedure B	R
12.	Other raw material for animal feeding stuffs and animal feeding stuffs	Determination of fat (after acid hydrolysis); gravimetric method	TL312.02B own method	R
13.	Meat and meat products	Determination of the content of fat (after acid hydrolysis); gravimetric method	TL312.02D in accordance with NEN-ISO 1443	R
14.	Fish and fish products	Determination of the content of fat (after acid hydrolysis); gravimetric method	TL312.02D own method	R
15.	Animal feeding stuffs	Determination of crude protein; titrimetric method	TL312.03A equivalent to EC 152/2009 Annex III-C equivalent to VDLUFA III (4.1.1)	R
16.	Raw materials for animal feeding stuffs	Determination of crude protein; titrimetric method	TL312.03A own method	R
17.	Soybeans and soybean products	Determination of Protein Dispersibility Index (PDI); titrimetric method	TL312.03B in accordance with AOCS Official method Ba 10-65	R
18.	Meat and meat products	Determination of the nitrogen content (calculated as protein); titrimetric method	TL312.03C in accordance with NEN-ISO 937	R
19.	Fish and fish products	Determination of the nitrogen content (calculated as protein); titrimetric method	TL312.03C own method	R
20.	Oil seeds and raw material for animal feeding stuffs	Determination of the content of crude protein; DUMAS	TL312.03G equivalent to NEN-EN-ISO 16634-1	R

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21.	Cereals, legumes and ground grain products	Determination of the content of crude protein; DUMAS	TL312.03G equivalent to NEN-EN-ISO 16634-2	R
22.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of crude fibre content; gravimetric method	TL312.04A in accordance with NEN-EN-ISO 6865 equivalent to EC 152/2009 Annex III-I equivalent to VDLUFA III (6.1.1)	R
23.	Diervoeders en diervoedergrondstoffen	Determination of crude fibre content according to GAFTA; gravimetric method	TL312.04B equivalent to GAFTA 9:0	R
24.	Animal feeding stuffs	Determination of crude ash; gravimetric method	TL312.05 in accordance with EC 152/2009 Annex III-M in accordance with VDLUFA III (8.1)	R
25.	Other raw materials for animal feeding stuffs	Determination of crude ash; gravimetric method	TL312.05 own method	R
26.	Meat and meat products	Determination of the content of ash; Gravimetric method	TL312.05B in accordance with NEN-ISO 936	R
27.	Fish and fish products	Determination of the content of ash; Gravimetric method	TL312.05B own method	R
28.	Animal feeding stuffs	Determination of starch; polarimetric method	TL312.06A equivalent to EC 152/2009 Annex III-L equivalent to VDLUFA III (7.2.1)	R
29.	Other raw materials for animal feeding stuffs	Determination of starch; polarimetric method	TL312.06A own method	R
30.	Animal feeding stuffs	Determination of sugar; titrimetric method	TL312.07 in accordance with EC 152/2009 Annex III-J, in accordance with VDLUFA III (7.1.1)	R
31.	Other raw materials for animal feeding stuffs	Determination of sugar; titrimetric method	TL312.07 own method	R
32.	Animal feeding stuffs	Determination of ash insoluble in hydrochloric acid (sand/silica); gravimetric method	TL312.05 in accordance with EC 152/2009 Annex III-N	R

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33.	Other raw materials for animal feeding stuffs	Determination of ash insoluble in hydrochloric acid (sand/silica); gravimetric method	TL312.05 own method	R
34.	Animal and vegetable fats and oils	Determination of acid value and acidity (FFA); titration	TL382.10A in accordance with ISO 660 Method 9.1 in accordance with NEN-EN 14104	R
35.		Determination of moisture and volatile matter content; gravimetric method	TL382.15 in accordance with NEN-EN-ISO 662	R
36.		Determination of iodine value; titrimetric method	TL382.14 in accordance with ISO 3961 in accordance with NEN-EN 14111	R
37.	Animal and vegetable fats and oils	Determination of unsaponifiable matter; diethyl ether extraction	TL382.19 in accordance with NEN-EN-ISO 3596	R
38.		Determination of peroxide value; titrimetric	TL382.24A in accordance with NEN-EN-ISO 3960	R
39.		Determination of insoluble impurities content; gravimetric	TL382.22 in accordance with NEN-EN-ISO 663	R
40.		Determination of saponification value	TL382.28 in accordance with NEN-EN-ISO 3657	R
41.	Soybean products	Determination of urease activity; titrimetric method	TL312.22 in accordance with ISO 5506 in accordance with NEN 3557	R
42.	Other raw materials for animal feeding stuffs and animal feeding stuffs	Determination of urease activity; titrimetric method	TL312.22 own method	R
43.	Fish and fish products	Determination of the content of total volatile basic nitrogen (TVB-N); Titrimetric method	TL312.24 equivalent to EU2074/2005 section II, chapter III	R
44.	Vegetables and vegetable products	Determination of nitrate; ion-exchange chromatography	TL412.11 in accordance with NEN-EN 12014-2	R
45.	Fruits	Determination of nitrate; ion-exchange chromatography	TL412.11 own method (analysis in accordance with NEN-EN 12014-2)	R
46.	Cereals, wheat, rye and their flours	Determination of the falling number (Hagberg-Perten)	TL312-09 in accordance with NEN-EN-ISO 3093	R

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47.	Foodstuffs	Determination of iodine by ICP-MS	TL412.12D in accordance with NEN-EN 15111	R
48.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of iodine by ICP-MS	TL412.12D own method (analysis in accordance with NEN-EN 15111)	R
49.	Foodstuffs of plant and marine origin	Determination of total inorganic arsenic; HPLC-ICP-MS	TL412.01A in accordance with NEN-EN 16802 draft	R
50.	Food	Determination of sulfite, Monier Williams	TL412.10 in accordance with NEN-EN 1988-1	R
51.	Food, oils and fats	Determination of various metals; after digestion (HNO ₃) and ICP-MS cadmium (Cd), lead (Pb), arsenic (As)	TL412.12 digestion: in accordance with NEN-EN 13805 analysis: in accordance with NEN-EN 15763	R
52.	Foodstuffs oils and fats	Determination of various metals; after digestion (HNO ₃) and ICP-MS vanadium (V), cobalt (Co), nickel (Ni)	TL412.12 own method (digestion: in accordance with NEN-EN 13805)	R
53.	Raw materials for animal feeding stuffs and animal feeding stuffs, oils and fats	Determination of various metals; after digestion (HNO ₃) and ICP-MS cadmium (Cd), lead (Pb), arsenic (As), vanadium (V), cobalt (Co), nickel (Ni)	TL412.12 digestion: own method analysis: own method	R
54.	Animal feeding stuffs and raw materials for animal feeding stuffs	Determination of fluoride (F) and chloride (Cl); ion-exchange chromatography	TL412.14 own method	R
55.	Cereals, fruits and vegetables	Determination of inorganic bromide (Br); ion-exchange chromatography	TL412.14 equivalent to NEN-EN 13191-2	R
56.	Food, animal feeding stuffs and raw materials for animal feeding stuffs	Determination of sodium (Na), potassium (K), magnesium (Mg), zinc (Zn), calcium (Ca), phosphorus (P), manganese (Mn), aluminium (Al), iron (Fe), copper (Cu), chromium (Cr); ICP-MS	TL412.16 own method	R
57.	Animal feeding stuffs and raw materials for animal feeding stuffs	Determination of mercury (Hg); mercury analyser	TL412.17 equivalent to NEN EN 16277	R

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58.	Foodstuffs	Determination of mercury (Hg); mercury analyser	TL412.17 equivalent to NEN EN 15763	R
59.	Animal feeding stuffs	Determination of fluoride content after hydrochloric acid treatment; ionsensitive electrode method (ISE)	TL412.18 in accordance with NEN-EN 16279	R
60.	Animal and vegetable fats and oils	Determination of the content of metals Ag, As, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Ri, Sb, Se, Sn, Ti, V and Zn; ICP-MS	TL412.19 own method	R
61.	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)anthracene	TL512.04 own method	R
62.	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	R
63.	Apples and apple products	Determination of patulin content; LC-MS/MS	TL512.07 own method	R

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67.	Oils and fats from plant animal origin and eggs	Determination of dioxins (PCDD's), dibenzofurans (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 in accordance with NEN-EN 16215 and in accordance with 644/2017)	R
68.	Oils and fats from plant origin	Determination of mineral oil (C10-C40); GC-FID	TL512.17 equivalent to VVR-bundle feed part II OSP 15	R
69.		Determination of mineral oil (C10-C25); GC-FID	TL512.17 own method (analysis: equivalent to VVR-bundle feed part II OSP 15)	R
70.	Raw materials for animal feeding stuffs	Determination of mineral oil (C10-C40); GC-FID	TL512.17 own method (analysis: equivalent to VVR-bundle feed part II OSP 15)	R
71.	Non-fatty crops1	Determination of dithiocarbamate and thiuramdisulfide residues (as CS ₂); GC-MS	TL512.19 in accordance with NEN-EN 12396-2	R
72.	Non-fatty food of plant origin	Determination of chlormequat and mepiquat; LC-MS/MS	TL512.12 in accordance with NEN-EN 15055	R
73.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of chlormequat and mepiquat; LC-MS/MS	TL512.12 own method (analysis: in accordance with NEN-EN 15055)	R

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74.	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	R
75.	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	R
76.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of hydrocyanic acid; LC-MS/MS	TL512.30 equivalent to NEN-EN 16160	R
77.	Food and feed and their raw materials	Determination of glyphosate; LC-MS/MS	TL512.15 own method	R
78.	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, Perchlorate, fosetyl, Ethepon-hydroxy (HEPA), Ethepon, Glufosinate, N-Acetyl-glufosinate.	TL512.18 own method	R

Microbiology

79.	Animal feeding stuffs and food	Enumeration of <i>Bacillus cereus</i> at 30°C; streak plate, MYP	TL752.05 in accordance with NEN-EN-ISO 7932	R
80.		Enumeration of β -glucuronidase-positive <i>Escherichia coli</i> at 44°C; streak plate, TBX	TL752.06 in accordance with NEN-ISO 16649-2	R
81.		Detection of <i>Salmonella</i> ; RVS and MKTTn	TL752.01A in accordance with NEN-EN-ISO 6579-1	R
82.		Detection of <i>Salmonella</i> (presence/absence); Assurance GDS <i>Salmonella</i>	TL752.01D equivalent to NEN-EN-ISO 6579: (AFNOR TRA 02/12-01/09)	R
83.		Enumeration of micro-organisms (Aerobic plate count) at 30°C; pour plate, PCA	TL752.04 in accordance with NEN-EN-ISO 4833-1	R

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84.	Animal feeding stuffs and food	Enumeration of Enterobacteriaceae at 37°C; pour plate, VRBG	TL752.02 in accordance with NEN ISO 21528-2	R
85.	Food (except garlic) and animal feed	Detection of Salmonella; presence absence test real-time PCR	TL752.01E equivalent to NEN-EN-ISO 6579 (Microval 2011-LR40)	R
86.	Animal feeding stuffs and food products	Enumeration of Enterobacteriaceae at 37°C; Petrifilm	TL752.02B equivalent to NEN ISO 21528-2: (AFNOR 3M 01/6-09/97)	R
87.	Food and animal feeding stuffs	Enumeration of yeasts and moulds at 25°C; streak plate DRBC	TL752.03C in accordance with NEN ISO 21527-1 (product with a water activity > 0,95)	R
88.	Animal feeding stuffs and food	Enumeration of yeasts and moulds at 25°C; plate, culture medium DG-18	TL752.03B in accordance with NEN ISO 21527-2 (product with a water activity ≤ 0,95)	R
89.		Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) at 37°C; streak plate, BP-RPF	TL752.09 in accordance with NEN-EN-ISO 6888-2	R
90.		Enumeration of Clostridium perfringens at 37°C; pour plate, TSC	TL752.10 in accordance with NEN-EN-ISO 7937	R
91.		Enumeration of mesophilic lactic acid bacteria at 30°C; streak plate, MRS	TL752.11 in accordance with ISO 15214	R
92.	Food, except dairy products and raw shellfish	Enumeration of micro-organisms (Aerobic plate count) at 30°C, reading after 48 hours; Petrifilm	TL752.04B equivalent to NEN-EN-ISO 4833: (AFNOR 3M 01/1-09/89)	R
93.	Food	Enumeration of β-glucuronidase-positive Escherichia coli at 42°C; Petrifilm	TL752.06B equivalent to NEN-EN-ISO 16649-2: (AFNOR 3M 01/08-06/01)	R
94.	Food, except raw shellfish	Enumeration of Coliforms at 37°C; Petrifilm	TL752.15 equivalent to NEN-EN-ISO 4832: (AFNOR 3M 01/2-09/89A)	R
95.	Animal feeding stuffs and food	Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) at 37°C; Petrifilm	TL752.09B equivalent to NEN-EN-ISO 6888-2 (AFNOR 3M 01/09-04/03B)	R
96.	Food products and environmental samples	Detection of Listeria monocytogenes; presence/absence half Fraser	TL752.20A equivalent to NEN-EN-ISO 11290-1 (AFNOR BRD 07/16-01/09)	R

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97.	Animal feeding stuffs and raw materials for feeding stuffs	Detection of <i>Listeria monocytogenes</i> ; presence/absence half Fraser	TL752.20A own method (AFNOR BRD 07/16-01/09)	R
98.	Food products and environmental samples	Enumeration of <i>Listeria monocytogenes</i> ; at 37°C; AL	TL752.20B equivalent to NEN-EN ISO 11290-2 (AFNOR BRD 07/17-01/09)	R
99.	Animal feeding stuffs and raw materials for feeding stuffs	Enumeration of <i>Listeria monocytogenes</i> ; at 37°C; AL	TL752.20B own method (AFNOR BRD 07/17-01/09)	R
100.	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 <i>Shigella</i> and/or <i>E. coli</i> (STEC/EHEC) bacteria; presence/absence, real-time PCR	TL762.34 own method	R
101.	<i>E. coli</i> (STEC/EHEC) isolates (originating from analysis 100)	Confirmation and serotyping of pooled and individual <i>E. coli</i> (STEC/EHEC) suspected colonies on <i>stx</i> and <i>eae</i> genes and serotypes (O26, O45, O103, O104, O111, O121, O145, O157, O174); presence/absence, real-time PCR and PCR melting curve analysis	TL762.34 own method	R
102.	Animal feeding stuffs and raw materials for feeding stuffs	Detection of <i>Campylobacter</i> (presence/absence); Bolton, mCCDA and Brilliance CampyCount agar	TL752.18 in accordance with NEN-EN-ISO 10272-1 (analysis Microval MV2008LR12)	R
103.	Foodstuffs (fruits, vegetables and shell fish)	Qualitative detection of the Norovirus (GI and GII); real-time RT-PCR	TL762.43A/B/C equivalent to NPR-CEN-ISO/TS 15216-2	R
104.	Foodstuffs (fruits, vegetables and shell fish)	Qualitative detection of Hepatitis A; real-time RT-PCR	TL762.43A/B/C in accordance with NPR-NEN-ISO/TS 15216-2	R
105.	Fish, fish products and shell fish	Detection of <i>Vibrio parahaemolyticus</i> , <i>V. vulnificus</i> and <i>V. cholera</i> ; presence/absence, real-time PCR	TL762.46 own method	R

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106.	Food	Detection of botulinum type A, B, E and F neurotoxin-producing clostridia; real-time-PCR	TL762.50 own method	R
Allergens in food				
107.	Raw materials, spices and processed products	Quantitative determination of gluten (gliadin x2); ELISA	TL762.19 equivalent to AOAC-method 2012.01 (extraction in accordance with R5-Mendez method)	R
108.	Food	Quantitative determination of casein; ELISA	TL762.16 own method	R
109.		Quantitative determination of the allergen soya; sandwich ELISA (Ridascreen® FAST Soya)	TL762.38 own method	R
110.		Quantitative determination of the allergen peanut sandwich ELISA (Ridascreen® FAST Peanut)	TL762.51 own method	R
Genetically Modified Food / Feeding stuffs				
111.	Soybean products	Quantitative analysis of Roundup Ready Soya (GMO); lightcycler instrument (PCR)	TL762.08C own method	R
112.	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); lightcycler instrument (PCR)	TL762.07B own method	R
113.	Soybean products	Quantitative analysis of Roundup Ready 2 Yield (MON 89788) Soya (GMO); PCR	TL762.67 own method	R
Microscopy				
114.	Raw materials for animal feeding stuffs and animal	Determination of stone shell content in palm- and coconut products; gravimetric method	TL612.01 own method	R

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115.	feeding stuffs	Determination of Datura species content; gravimetric method	TL612.03 own method	R
116.	Raw materials for animal feeding stuffs and animal feeding stuffs	Determination of product-specific admixture; gravimetric method	TL612.02 own method	R
117.	feeding stuffs	Determination the content of Castor seed husks; gravimetric method	TL612.04 in accordance with ISO 5061	R
118.	Animal feeding stuffs	Determination of animal meal; microscopic method	TL612.06 in accordance with EG 152/2009, Annex VI	R
119.	Other raw materials for animal feeding stuffs	Determination of animal meal; microscopic method	TL612.06 own method (analysis in accordance with EG 152/2009, ANNEX VI)	R

Solid mineral fuels: Physical / chemical parameters

120.	Coal	Determination of total moisture content; gravimetric method	TL422.01B in accordance with NEN-ISO 589, Method B1	R
121.		Determination of the crude swelling number (FSI)	TL422.08 in accordance with NEN- ISO 501	R
122.		Determination of hardgrove grindability index (HGI); gravimetric method	TL422.07 in accordance with NEN-ISO 5074	R
123.	Solid mineral fuels	Determination of ash; gravimetric method	TL422.03 in accordance with NEN- ISO 1171	R
124.	Coal and cokes	Determination of volatile matter content; gravimetric method	TL422.02 in accordance with NEN-ISO 562	R
125.	Solid mineral fuels	Determination of carbon (C), hydrogen (H) with the element analyser	TL422.05 in accordance with ASTM D 5373 in accordance with NEN-ISO 29541	R
126.		Determination of nitrogen (N) with the element analyser	TL422.05 in accordance with NEN-ISO 29541	R
127.		Determination of sulphur (S) with the element analyser	TL422.05 own method	R
128.	Solid fuels	Determination of moisture in the analysis test sample; gravimetric method	TL422.01A in accordance with NEN-ISO 11722	R

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No.	Material or product	Type of activity ¹	Internal reference number	Location
129.		Determination of gross caloric value by bomb caloric method and calculation of net caloric value	TL422.04 in accordance with NEN-ISO 1928	R
130.	Coal and cokes	Determination of fusibility of ash	TL432.01 in accordance with NEN-ISO 540	R
131.	Other solid mineral fuels	Determination of fusibility of ash	TL432.01 own method	R
132.	Solid fuels	Determination of fluoride (F) and chloride (Cl); ion-exchange chromatography	TL412.13 own method	R
133.	Solid biofuels and solid secondary fuels, coal, cokes and fly ash	Determination of ash composition; after ashing at 815oC, 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	R
134.	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: equivalent to NEN-EN-ISO 16968	R
135.		Determination of mercury (Hg); mercury analyser	TL412.17 equivalent to NEN-EN-ISO 16968	R
136.	Solid biofuels	Determination of mercury (Hg); mercury analyser	TL412.17 in accordance with ASTM D6722-01 equivalent to NEN ISO 15237	R
137.	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 in accordance with NPR-CEN-TS 15414-1 NEN EN ISO 18134-1	R
138.		Determination of moisture in the analysis test sample; gravimetric method	TL422.01A in accordance with NEN-EN 14774-3, draft NEN-EN 15414-3 NEN EN ISO 18134-3	R
139.		Determination of ash, gravimetric method	TL422.03 in accordance with NEN-EN-ISO 18122, NEN-EN 15403	R
140.		Determination of volatile matter content; gravimetric method	TL422.02 in accordance with NEN-EN-ISO 18123, NEN-EN 15402	R

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No.	Material or product	Type of activity ¹	Internal reference number	Location
141.	Biomass (wood, residues from food and tobacco industry for generating energy), solid biofuels and solid secondary biofuels	Determination of carbon (C), nitrogen (N), hydrogen (H) with the element analyser	TL422.05 in accordance with NEN-EN 15407, NEN-EN-ISO 16948	R
142.		Determination of fluoride (F); IC method	TL412.13 own method	R
143.		Determination of gross caloric value by bomb caloric method and calculation of net caloric value	TL422.04 in accordance with NEN-EN-ISO 18125, NEN-EN 15400	R
144.	Fly Ash	Determination of the fineness by wet sieving	TL432.08 own method	R
145.		Determination of the L*a*b* colour space; colorimetric method	TL432.09 in accordance with NEN-EN-ISO 11664-4	R
146.		Determination of free calcium oxide content; titrimetric method	TL432.11 in accordance with NEN-EN 451-1	R
147.		Determination of the loss by combustion without correction for the oxidation of sulphides; gravimetric method	TL432.12 in accordance with NEN-EN 196-2	R
148.	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 equivalent to NEN-EN-ISO 16968	R
149.		Determination of minor elements barium (Ba) and iron (Fe); ICP-MS	TL412.12 own method (analysis: equivalent to NEN-EN-ISO 16968)	R
150.		Determination of total content of sulphur (S) and chlorine (Cl); tube furnace and ion-exchange chromatography	TL412.13 in accordance with NEN-EN-ISO 16994	R
151.		Determination of ash melting behaviour; characteristic temperatures method	TL432.01B in accordance with NPR CEN/TS 15370-1	R
152.		Determination of mechanical durability of pellets and briquettes; pellets tester	TL272.03 in accordance with NEN-EN-ISO 17831-1	R
153.		Determination of bulk density; standard measuring container	TL272.04 in accordance with NEN-EN-ISO 17828	R

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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 particle size distribution; Vibrating screen method using sieve apertures of 3,15 mm and below	TL272.05A in accordance with NEN-EN-ISO 17827-2	R
155.		Determination of particle size distribution of disintegrated pellets; disintegration in hot water sieve apertures of 3,15 mm and below	TL272.05B in accordance with NEN-EN-ISO 17827-2 in accordance with NEN-EN-ISO 17830	R
156.		Determination of length and diameter of pellets	TL612.07 in accordance with NEN-EN-ISO 17829	R
157.	All other pellets	Determination of length and diameter of pellets	TL612.07 own method (analysis: in accordance with NEN-EN-ISO 17829)	R
Flexible scope Organic chemistry²				
158.	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	TL512.26, TL512.27, TL512.40	R
Flexible scope Genetically Modified Food/ Feeding stuffs²				
159.	Food and feed and their raw materials	Detection of transformation events (GMO); PCR	TL762.01	R

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