

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

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

This annex is valid from: **17-06-2020 to 01-02-2024**

Replaces annex dated: **24-12-2019**

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 (with internal reference number TL512.40) | TL002.01 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 NEN-ISO 18283 NEN-ISO 13909-4 | R |
|----|---------------------|----------------------------------------------------------------------------------------|----------------------------------------------|---|

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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| 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 NEN EN ISO 14780 NEN EN 15443 | R |
| 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) | 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 EC 152/2009 Annex III-A VDLUFA III (3.1) | R |
| 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 | 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 EC 152/2009 Annex III-A VDLUFA III (3.1) | R |
| 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 | R |
| 7. | Meat and meat products | Determination of the content of moisture; Gravimetric method | TL312.01F NEN-ISO 1442 | R |
| 8. | Fish and fish products | Determination of the content of moisture; Gravimetric method | TL312.01F own method | R |

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| 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 | R |
| 10. | 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 EC 152/2009 Annex III-H, method B VDLUFA III (5.1.1), procedure B | R |
| 12. | 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 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 EC 152/2009 Annex III-C 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 AOCS Official method Ba 10-65 | R |
| 18. | Meat and meat products | Determination of the nitrogen content (calculated as protein); titrimetric method | TL312.03C NEN-ISO 937 | R |
| 19. | Fish and fish products | Determination of the nitrogen content (calculated as protein); titrimetric method | TL312.03C own method | R |

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| 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 | R |
| 21. | Cereals, legumes and ground grain products | Determination of the content of crude protein; DUMAS | TL312.03G 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 NEN-EN-ISO 6865 EC 152/2009 Annex III-I VDLUFA III (6.1.1) | R |
| 23. | Diervoeders en diervoedergrondstoffen | Determination of crude fibre content gravimetric-method | TL312.04B GAFTA 9:0 | R |
| 24. | Animal feeding stuffs | Determination of crude ash; gravimetric method | TL312.05 EC 152/2009 Annex III-M VDLUFA III (8.1) | R |
| 25. | 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 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 EC 152/2009 Annex III-L VDLUFA III (7.2.1) | R |
| 29. | 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 EC 152/2009 Annex III-J, VDLUFA III (7.1.1) | R |
| 31. | 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 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 (free fatty acid / FFA); titrimetric method | TL382.10A ISO 660 Method 9.1 NEN-EN 14104 | R |
| 35. | | Determination of moisture and volatile matter content; gravimetric method | TL382.15 NEN-EN-ISO 662 | R |
| 36. | | Determination of iodine value; titrimetric method | TL382.14 ISO 3961 NEN-EN 14111 | R |
| 37. | Animal and vegetable fats and oils | Determination of unsaponifiable matter; diethyl ether extraction | TL382.19 NEN-EN-ISO 3596 | R |
| 38. | | Determination of peroxide value; titrimetric method | TL382.24A NEN-EN-ISO 3960 | R |
| 39. | | Determination of insoluble impurities content; gravimetric method | TL382.22 NEN-EN-ISO 663 | R |
| 40. | | Determination of saponification value; titrimetric method | TL382.28 NEN-EN-ISO 3657 | R |
| 41. | Soybean products | Determination of urease activity; titrimetric method | TL312.22 ISO 5506 NEN 3557 | R |
| 42. | 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 EU2074/2005 section II, chapter III | R |
| 44. | Vegetables and vegetable products | Determination of nitrate; ion-exchange chromatography | TL412.11 NEN-EN 12014-2 | R |
| 45. | Fruits | Determination of nitrate; ion-exchange chromatography | TL412.11 own method (analysis NEN-EN 12014-2) | R |
| 46. | Cereals, wheat, rye and their flours | Determination of the falling number; Hagberg-Perten | TL312-09 NEN-EN-ISO 3093 | R |

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| 47. | Food | Determination of sulfite; Monier Williams | TL412.10 NEN-EN 1988-1 | R |
| 48. | 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 |
| 49. | Cereals, fruits and vegetables | Determination of inorganic bromide (Br); ion-exchange chromatography | TL412.14 NEN-EN 13191-2 | R |
| 50. | Animal feeding stuffs | Determination of fluoride content after hydrochloric acid treatment; ionsensitive electrode method (ISE) | TL412.18 NEN-EN 16279 | R |

Inorganic analyses (elementanalyses)

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|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---|
| 51. | Foodstuffs | Determination of iodine; ICP-MS | TL412.12D NEN-EN 15111 | R |
| 52. | Raw materials for animal feeding stuffs and animal feeding stuffs | Determination of iodine; ICP-MS | TL412.12D own method (analysis NEN-EN 15111) | R |
| 53. | Foodstuffs of plant and marine origin | Determination of total inorganic arsenic; HPLC-ICP-MS | TL412.01A NEN-EN 16802 draft | R |
| 54. | 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 | R |
| 55. | 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) | R |
| 56. | 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 | R |
| 57. | 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 | R |

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| 58. | Animal feeding stuffs and raw materials for animal feeding stuffs | Determination of mercury (Hg); direct thermal decomposition CV-AAS | TL412.17 NEN EN 16277 | R |
| 59. | Foodstuffs | Determination of mercury (Hg); direct thermal decomposition CV-AAS | TL412.17 NEN EN 15763 | R |
| 60. | 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 | R |

Organic analyses

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|-----|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|
| 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 Anthracene PCB 101 Fluoranthene PCB 118 Chrysene PCB 153 Acenaphthene 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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| 64. | 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 Toluidine 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 | R |
| 65. | Animal feeding stuffs, raw materials for feeding stuffs and milk powder | Determination of melamine and cyanuric acid; LC-MS/MS | TL512.09 own method | R |
| 66. | Raw materials for animal feeding stuffs and animal feeding stuffs | Determination of dioxins (PCDD's), dibenzofurans (PCDF's), non-ortho-PCB's and mono-ortho PCB's: GC-HRMS <i>Dibenzo-p-dioxins (PCDD's): Non-ortho-PCB's</i> 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 <i>Mono-ortho-PCB's</i> OCDD PCB 105 PCB 114 <i>Dibenzofurans (PCDF's)</i> 2,3,7,8-TCDF 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 | 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 <i>Dibenzo-p-dioxins (PCDD's):</i> <i>Non-ortho-PCB's</i> 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 <i>Mono-ortho-PCB's</i> OCDD PCB 105 PCB 114 <i>Dibenzofurans (PCDF's)</i> 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 644/2017) | R |
| 68. | Oils and fats from plant origin | Determination of mineral oil (C10-C40); GC-FID | TL512.17 VVR-bundle feed part II OSP 15 | R |
| 69. | | Determination of mineral oil (C10-C25); GC-FID | TL512.17 own method (analysis: 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: VVR-bundle feed part II OSP 15) | R |
| 71. | Non-fatty crops ¹ | Determination of dithiocarbamate and thiuramdisulfide residues (as CS ₂); GC-MS | TL512.19 NEN-EN 12396-2 | R |
| 72. | Non-fatty food of plant origin | Determination of chlormequat and mepiquat; LC-MS/MS | TL512.12 NEN-EN 15055 | R |

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| 73. | 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) | R |
| 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 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, Chlorate, Perchlorate, fosetyl, Ethephon-hydroxy (HEPA), Ethephon, Glufosinate, N-Acetyl-glufosinate. | TL512.18 own method | R |

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| 79. | Animal feed and animal feedingstuffs | Determination of antibiotics, coccidiostatics en anthelmintics; 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, Tyllasolin, Gamithromycin, Josamycin Fenicols: Thiamphenicol, Florfenicol, Chloramphenicol Tetracyclins: Chlortetracycline, Doxycycline, Oxytetracycline, Tetracycline Pluomulin: Tiamulin, Valnemulin Lincosamids: Lincomycin Sulfonamids: Sulfabenzamide, Sulfachloropyridazine, Sulfadimethoxine, Sulfadiazine (=Sulfapyrimidin), Sulfadimidine (=Sulfamethazin), Sulfadoxine, Sulfamerazine, Sulfamethizole, Sulfamethoxazole, Sulfamethoxyipyridazine, Sulfamonomethoxine, Sulfamoxole, Sulfaquinoxaline, Sulfathiazole, Sulfisoxazole, Dapsone. Other: Trimethoprim, Zinc Bacitracin Coccidiostatics: Clopidol (=Meticlorpindol), Amprolium, Halofuginone, Robenidine, Decoquinat, Salinomycin, Narasin, Maduramicin, Lasalocid, Monensin, Diclazuril, Nicarbazine Anthelmintics: Flubendazole Macrolids/Streptogramins: Virginiamycin M1, Virginiamycin S1 | TL512.38B Own method | R |

Microbiological analyses

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|-----|--------------------------------|--------------------------------------------------------------------------------------------|-----------------------------|---|
| 80. | Animal feeding stuffs and food | Enumeration of Bacillus cereus at 30°C; streak plate, MYP | TL752.05 NEN-EN-ISO 7932 | R |
| 81. | | Enumeration of β -glucuronidase-positive Escherichia coli at 44°C; streak plate, TBX | TL752.06 NEN-ISO 16649-2 | R |

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| 82. | Animal feeding stuffs and food | Detection of Salmonella; RVS and MKTTn | TL7620.01A NEN-EN-ISO 6579-1 | R |
| 83. | | Detection of Salmonella (qualitative analysis); PCR | TL762.01D NEN-EN-ISO 6579: (AFNOR TRA 02/12-01/09) | R |
| 84. | | Enumeration of micro-organisms (Aerobic plate count) at 30°C; pour plate, PCA | TL752.04 NEN-EN-ISO 4833-1 | R |
| 85. | | Enumeration of Enterobacteriaceae at 37°C; pour plate, VRBG | TL752.02 NEN ISO 21528-2 | R |
| 86. | Food (except garlic) and animal feed | Detection of Salmonella; qualitative analysis test real-time PCR | TL762.01E NEN-EN-ISO 6579 (Microval 2011-LR40) | R |
| 87. | Animal feeding stuffs and food products | Enumeration of Enterobacteriaceae at 37°C; colony count technique | TL752.02B NEN ISO 21528-2: (AFNOR 3M 01/6-09/97) | R |
| 88. | 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 | R |
| 89. | 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 | R |
| 90. | 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 | R |
| 91. | | Enumeration of Clostridium perfringens at 37°C; pour plate, TSC | TL752.10 NEN-EN-ISO 7937 | R |
| 92. | | Enumeration of mesophilic lactic acid bacteria at 30°C; streak plate, MRS | TL752.11 ISO 15214 | R |
| 93. | 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) | R |

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| 94. | 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) | R |
| 95. | 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) | R |
| 96. | 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) | R |
| 97. | 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) | R |
| 98. | 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) | R |
| 99. | 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) | R |
| 100. | 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) | R |
| 101. | Meat and meat products, potatoes, vegetables and fruits, seeds and beans (except | Screening for Shigatoxin producing Shigella and/or E. coli (STEC/EHEC) bacteria; qualitative analysis, real-time PCR | TL762.34 own method | R |
| 102. | garlic and citrus fruits) and environmental samples (spent irrigation water) | 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 | R |
| 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) | R |

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------|
| 104. | Foodstuffs (fruits, vegetables and shell fish) | Qualitative detection of the Norovirus (GI and GII); real-time RT-PCR | TL762.43A/B/C NPR-CEN-ISO/TS 15216-2 | R |
| 105. | Foodstuffs (fruits, vegetables and shell fish) | Qualitative detection of Hepatitis A; real-time RT-PCR | TL762.43A/B/C NPR-CEN-ISO/TS 15216-2 | R |
| 106. | Fish, fish products and shell fish | Detection of <i>Vibrio parahaemolyticus</i> , <i>V. vulnificus</i> and <i>V. cholera</i> ; qualitative analysis, real-time PCR | TL762.46 own method | R |
| 107. | Food | Detection of botulinum type A, B, E and F neurotoxin-producing clostridia; real-time-PCR | TL762.50 own method | R |

Allergen analyses

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|------|----------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|---|
| 108. | Raw materials, spices and processed products | Quantitative determination of gluten (gliadin x2); ELISA | TL742.19 AOAC-method 2012.01 (extraction R5-Mendez method) | R |
| 109. | Food | Quantitative determination of casein; ELISA | TL742.16 own method | R |
| 110. | | Quantitative determination of the allergen soya; sandwich ELISA | TL742.38 own method | R |
| 111. | | Quantitative determination of the allergen peanut; sandwich ELISA | TL742.51 own method | R |

Genetically Modified analyses

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|------|------------------|--------------------------------------------------------|-------------------------|---|
| 112. | Soybean products | Quantitative analysis of Roundup Ready Soya (GMO); PCR | TL742.08C own method | R |
|------|------------------|--------------------------------------------------------|-------------------------|---|

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------|----------|
| 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 | R |
| 114. | Soybean products | Quantitative analysis of Roundup Ready 2 Yield (MON 89788) Soya (GMO); PCR | TL742.67 own method | R |

Microscopic analyses

| | | | | |
|------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---|
| 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 | R |
| 116. | | Determination of Datura species content; visually microscopic and gravimetric method | TL612.03 own method | R |
| 117. | | Determination of product-specific admixture; visually microscopic and gravimetric method | TL612.02 own method | R |
| 118. | | Determination the content of Castor seed husks; visually microscopic and gravimetric method | TL612.04 ISO 5061 | R |
| 119. | Animal feeding stuffs | Determination of the constituents of animal origin; microscopic method | TL612.06 EG 152/2009, Annex VI | R |
| 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) | R |

Solid mineral fuels: Physical / chemical parameters

| | | | | |
|------|------|---------------------------------------------------------------------|-------------------------------------|---|
| 121. | Coal | Determination of total moisture content; gravimetric method | TL422.01B NEN-ISO 589, Method B1 | R |
| 122. | | Determination of the crude swelling number (FSI); comparison method | TL422.08 NEN- ISO 501 | R |

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|----------|
| 123. | | Determination of hardgrove grindability index (HGI); gravimetric method | TL422.07 NEN-ISO 5074 | R |
| 124. | Solid mineral fuels | Determination of ash; gravimetric method | TL422.03 NEN- ISO 1171 | R |
| 125. | Coal and cokes | Determination of volatile matter content; gravimetric method | TL422.02 NEN-ISO 562 | R |
| 126. | Solid mineral fuels | Determination of carbon (C), hydrogen (H); element analyser | TL422.05 ASTM D 5373 NEN-ISO 29541 | R |
| 127. | | Determination of nitrogen (N); element analyser | TL422.05 NEN-ISO 29541 | R |
| 128. | | Determination of sulphur (S); element analyser | TL422.05 own method | R |
| 129. | | Determination of moisture in the analysis test sample; gravimetric method | TL422.01A NEN-ISO 11722 | R |
| 130. | | Determination of gross caloric value; bomb caloric method | TL422.04 EN-ISO 1928 | R |
| 131. | Coal and cokes | Determination of fusibility of ash; high temperature tube method | TL432.01 NEN-ISO 540 | R |
| 132. | Other solid mineral fuels | Determination of fusibility of ash; high temperature tube method | TL432.01 own method | R |
| 133. | Solid fuels | Determination of fluoride (F) and chloride (Cl); ion-exchange chromatography | TL412.13 own method | R |
| 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 | R |
| 135. | | Determination of moisture in the analysis test sample; gravimetric method | TL422.01A NEN-EN 15414-3, NEN EN ISO 18134-3 | R |
| 136. | | Determination of ash; gravimetric method | TL422.03 NEN-EN-ISO 18122, NEN-EN 15403 | R |
| 137. | | Determination of volatile matter content; gravimetric method | TL422.02 NEN-EN-ISO 18123, NEN-EN 15402 | R |

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|
| 138. | | Determination of carbon (C), nitrogen (N), hydrogen (H); element analyser | TL422.05 NEN-EN 15407, NEN-EN-ISO 16948 | R |
| 139. | | Determination of fluoride (F); IC method | TL412.13 own method | R |
| 140. | | Determination of gross caloric value; bomb caloric method and calculation of net caloric value | TL422.04 NEN-EN-ISO 18125, NEN-EN 15400 | R |
| 141. | Fly Ash | Determination of the fineness; wet sieving | TL432.08 own method | R |
| 142. | | Determination of the L*a*b* colour space; colorimetric method | TL432.09 NEN-EN-ISO 11664-4 | R |
| 143. | Fly Ash | Determination of free calcium oxide content; titrimetric method | TL432.11 NEN-EN 451-1 | R |
| 144. | | Determination of the loss by combustion without correction for the oxidation of sulphides; gravimetric method | TL432.12 NEN-EN 196-2 | R |
| 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 | R |
| 146. | | Determination of ash melting behaviour; characteristic temperatures method | TL432.01B NPR CEN/TS 15370-1 | R |
| 147. | | Determination of mechanical durability of pellets and briquettes; pellets tester | TL272.03 NEN-EN-ISO 17831-1 | R |
| 148. | | Determination of bulk density; standard measuring container | TL272.04 NEN-EN-ISO 17828 | R |
| 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 | R |
| 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 | R |
| 151. | | Determination of length and diameter of pellets; calliper | TL612.07 NEN-EN-ISO 17829 | R |

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------|
| 152. | All other pellets | Determination of length and diameter of pellets; calliper | TL612.07 own method (analysis: NEN-EN-ISO 17829) | R |
| 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 | R |
| 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 | R |
| 155. | Solid biofuels and solid secondary fuels | Determination of mercury (Hg); mercury analyser | TL412.17 NEN-EN-ISO 16968 | R |
| 156. | Solid biofuels | Determination of mercury (Hg); mercury analyser | TL412.17 ASTM D6722-01 NEN ISO 15237 | R |
| 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 | R |
| 158. | | Determination of minor elements barium (Ba) and iron (Fe); ICP-MS | TL412.12 own method (analysis:-NEN-EN-ISO 16968) | R |

Flexible scope Organic analysis²

| | | | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------|---|
| 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 | R |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------|---|

Flexible scope Genetically Modified analyses²

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

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 |
|------------|---------------------------------------|-----------------------------------------------|----------------------------------|-----------------|
| 160. | Food and feed and their raw materials | Detection of transformation events (GMO); PCR | TL742.01 | R |