

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: L 232

of **FrieslandCampina Nederland B.V.**
Laboratory & Quality Services

This annex is valid from: **09-05-2023** to **01-07-2023** Replaces annex dated: **08-03-2023**
Prolonged until 01-10-2023

Location(s) where activities are performed under accreditation

Head Office

Pieter Stuyvesantweg 1
 8937 AC
 Leeuwarden
 The Netherlands

Location	Abbreviation/ location code
Pieter Stuyvesantweg 1 8937 AC Leeuwarden The Netherlands	L

No.	Material or product	Type of activity ¹	Internal reference number	Location
Sampling				
a	Milk and milk products	Taking samples of liquid products for the purpose of all microbiological methods	FLOV0001 NEN-EN-ISO 707	L
b	Surfaces	Taking samples of surfaces by using a swab, sponge or cloth for the purpose of all microbiological methods	FLOV0002 NEN-ISO 18593	L
c	Cheese	Taking samples of a sector or piece of cheese for the purpose of all microbiological methods	FLOV0004 NEN-EN-ISO 707	L
d	Surfaces	Taking samples of surfaces using plates for the purpose of the enumeration of yeasts and moulds	FLOV0005 in-house method	L

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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e	Air	Taking samples of air using the Biotest RCS Plus Air Sampler for the purpose of quantitative microbiological methods	FLOV0006 in-house method	L
f		Taking samples of air using sedimentation plates for the purpose of quantitative microbiological methods	FLOV0008 in-house method	L
g	Drinking water (Matrix A) Process water (Matrix B)	Taking samples of water for Legionella analysis (the associated test is carried out structurally by another accredited laboratory)	FLOV0028 NEN-EN-ISO 11731 and NEN-EN-ISO 19458	L

Microbiological Analyses

1.	Milk and milk products, compound feed for young animals and ingredients	Enumeration of Micro-organisms at 30°C; Colony count technique	FLMV0001 NEN-EN- ISO 4833-1	L
2.	Milk, milk products, environmental samples, compound feed for young animals and ingredients	Detection of <i>Salmonella</i> spp; presence/absence, PCR	FLMV0004 NEN-EN-ISO 6579-1 (AFNOR TRA 02/12 – 01/09)	L
3.		Detection of <i>Salmonella</i> species; presence/absence	FLMV0278 NEN-EN-ISO 6579-1	L
4.		Enumeration of <i>Enterobacteriaceae</i> at 37°C; Colony count technique without confirmation	FLMV0006 NEN-EN-ISO 21528-2	L
5.	Milk and milk products	Enumeration of spores of aerobic mesophilic spore forming bacteria at 37°C; Colony count technique	FLMV0007 NEN 6813	L
6.	Milk, milk products, powdered raw materials and compound feed for young animals and ingredients	Enumeration of “presumptive” <i>Bacillus cereus</i> at 30°C; Colony count technique, chromogenic medium	FLMV0008 NEN-EN-ISO 7932 (AFNOR BKR 23/06 – 02/10)	L
7.	Milk and milk products	Enumeration of bacteria at 55°C; Colony count technique	FLMV0010 in-house method	L

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8.	Milk and milk products	Enumeration of thermophilic bacteria at 30°C; Colony count technique	FLMV0011 NEN 6807	L
9.	Milk	Detection of spores of Butyric acid bacteria at 37°C; MPN	FLMV0012 NEN 6877	L
10.	Milk and milk products	Enumeration of thermophilic streptococci at 45°C; Colony count technique	FLMV0015 NEN 6808	L
11.		Enumeration of lactobacilli at 30°C; Colony count technique	FLMV0016 NEN 6815	L
12.	Milk, milk products and environmental samples	Detection of <i>Enterobacteriaceae</i> ; presence/absence (reference method)	FLMV0239 NEN-EN-ISO 21528-1	L
13.	Milk and milk products	Enumeration of coliforms at 30°C; Colony count technique without confirmation	FLMV0044 NEN-ISO 4832	L
14.		Enumeration of coagulase positive <i>staphylococci</i> ; Colony count technique at 37°C	FLMV0055 NEN-EN-ISO 6888-2	L
15.	Powdered infant food, milk, milk products, compound feed for young animals and ingredients	Detection of <i>Staphylococcus aureus</i> ; presence/absence; PCR	FLMV0064 AOAC PTM#120701	L
16.	Heat treated milk products (except for powdered milk products)	Enumeration of coliforms; Colony count technique	FLMV0065 NEN-ISO 4832 (AFNOR BRD 07/08 - 12/04)	L
17.		Enumeration β -glucuronidase positive <i>E. coli</i> at 37°C; Colony count technique	FLMV0065 NEN-ISO 16649-2 (AFNOR BRD 07/7 - 12/04)	L
18.	Milk and milk products	Enumeration of spores of aerobic thermophilic spore forming bacteria at 55°C; Colony count technique	FLMV0071 NEN 6809	L

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19.	Milk, milk products, powdered infant food and water, compound feed for young animals and ingredients	Enumeration of spores of sulfite-reducing <i>Clostridia</i> at 30°C; Colony count technique	FLMV0072 International Journal of Food Microbiology Volume 27, Issues 2-3, October 1995, pages 185 – 200	L
20.	Milk and milk products	Enumeration of yeasts & moulds at 25°C; Colony count technique	FLMV0073 NEN-ISO 6611	L
21.		Detection of <i>Listeria monocytogenes</i> ; presence/absence; confirmation using MALDI-TOF	FLMV0134 Isolation NEN-EN-ISO 11290-1 Confirmation: NEN-EN-ISO 11290-1 (MicroVal 2017LR75)	L
22.	Milk products	Detection of β-glucuronidase positive <i>E. coli</i> ; presence/absence	FLMV0205 in-house method	L
23.	Milk powder, powdered raw materials, powdered infant food and environmental samples	Detection of <i>Cronobacter spp.</i> ; presence/absence, confirmation using MALDI-TOF	FLMV0212 Isolation NEN-EN-ISO 22964 Confirmation: NEN-EN-ISO 22964 (MicroVal 2017LR72)	L
24.	Cheese, powdered infant food, butter and environmental samples	Detection of <i>Listeria monocytogenes</i> and <i>Listeria spp.</i> ; presence/absence, PCR, confirmation using MALDI-TOF	FLMV0285 Isolation: NEN-EN-ISO 11290-1 (MicroVal 2010LR31, and 2014LR32) Confirmation: NEN-EN-ISO 11290-1 (MicroVal 2017LR75)	L

Organic Analyses

25.	Dairy products, infant food, oils and fats	Determination of fatty acid composition (C4-C24, saturated-, (multiple) unsaturated fatty acids and trans fatty acids); gas chromatography	FLCV5007 dairy products NEN-ISO 15885/IDF184 infant food, oils and fats in-house method (performance of analysis NEN-ISO 15885/IDF184)	L
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26.	Vivinal GOS (powdered en syrup) and powdered infant food	Determination of Transgalactooligosaccharides (T-GOS); High Performance Anion Exchange Chromatography and Pulsed Amperometric Detection (HPAEC-PAD)	FLCV5315 AOAC 2001.02	L
27.	Powdered and liquid infant food, condensed milk (enriched with vitamin A and fat (enriched with vitamin A)	Determination of Vitamin A content (all-trans-retinol) and vitamin E (α -tocopherol); HPLC	FLCV5350 in-house method	L
28.	Milk and milk powder powered and liquid dairy products and infant food	Determination of aflatoxin M ₁ ; HPLC-fluorescence	FLCV0049 Milk and milk powder NEN-EN-ISO 14501/IDF 171 powered and liquid dairy products and infant food in-house method (implementation NEN-EN-ISO 14501/IDF 171)	L
29.	Milk, cream and milk powder	Determination of lactose; HPLC-RI	FLCV0422 NEN-ISO 22662/IDF 198	L
30.	Powdered and liquid dairy products and infant food	Determination of lactose and sucrose; HPLC-RI	FLCV0422 in-house method (performance of analysis NEN-ISO 22662/IDF 198)	L
31.	Powdered and liquid infant food and dairy products	Determination of Vitamin D3 content (cholecalciferol); LC-MS/MS	FLCV5420 ISO 20636	L
32.		Determination of melamine and cyanic acid content ; LC-MS/MS	FLCV0359 ISO/TS 15495 / IDF/RM 230	L
33.	Powdered and liquid infant food	Determination of taurine; LC-MS/MS	FLCV0191 AOAC SMPR 2014.013	L
34.		Determination of pantothenic acid (vitamin B ₅); LC-MS/MS	FLCV0288 AOAC 2012.16 and NEN-ISO 20639	L

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35.	Powdered and liquid infant food, powdered and liquid dairy products and premix	Determination of total L-carnitine; LC-MS/MS	FLCV0338 ISO 21468 en AOAC 2015.10	L
36.	Powdered and liquid infant food, powdered and liquid dairy products, powdered and liquid dairy raw materials and premix	Determination of total vitamin B ₁ , B ₂ , B ₃ and B ₆ content; LC-MS/MS	FLCV0465 powdered and liquid infant food ISO 21470 and AOAC 2015.14 Remaining in-house method (performance of analysis ISO 21470 and AOAC 2015.14)	L
37.		Determination of biotin; LC-MS/MS	FLCV0488 powdered and liquid infant food AOAC 2016.02/ISO 23305 powdered and liquid dairyproducts, dairy raw materials and premix in-house method (performance AOAC 2016.02/ISO 23305)	L
38.	Powdered and liquid infant food, powdered and liquid dairy products, cheese and premix	Determination of vitamin B ₁₂ ; LC-MS/MS	FLCV0283 Powdered and liquid infant food NEN-ISO 20634 Powdered and liquid dairy products, cheese and premix in-house method	L
39.	Powdered infant food	Determination of the content Lactoferrine; RP-HPLC	FLCV0477 Zhang et al.: Journal of AOAC International Vol. 100, No. 1, 2017, page 133 Determination of Bovine Lactoferrin in Food by HPLC with a Heparin Affinity Column for Sample Preparation	L
40.	Powdered infant food, powdered dairy products and powdered dairy raw materials	Determination of the content of nucleotides; HPLC-UV	FLCV0339 Powdered infant food ISO 20638 Powdered dairy products and powdered dairy raw materials in-house method	L

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41.	Powdered and liquid infant food, dairy products and premix	Determination of vitamin C; (U)HPLC	FLCV0497 Powdered and liquid infant food NEN-ISO 20635 Dairy products and premix in-house method	L
42.	Infant food, dairy products, oils and fats	Determination of the content of vitamin K ₁ ; normal phase HPLC	FLCV0507 infant food NEN-ISO 21446 dairy products, oils and fats in-house method	L

Spectrometric Analyses (NIR, FTIR)

43.	Milkpowders	Determination of fat, protein and dry matter content and freezing point; Near Infrared Reflection Spectrometry (NIR)	FLCV5266 fat, protein and moisture NEN-ISO 21543/IDF 201 acidity in-house method	L
44.	Powdered infant food	Determination of components fat, protein, and moisture; Near Infrared Reflection Spectrometry (NIR)	FLCV5266 in-house method	L
45.	Whey powder	Determination of components fat, protein, moisture, ash and lactose content; Near Infrared Reflection Spectrometry (NIR)	FLCV 5266 fat, protein, moisture and lactose NEN-ISO 21543/IDF 201 ash in-house method	L
46.	Milk	Determination of components fat, protein, lactose and dry matter content; Fourier Transform Infra-Red Spectroscopy (FTIR)	FLCV5318 NEN-EN-ISO 9622	L
47.	Evaporated milk	Determination of components fat, protein and dry matter content; Fourier Transform Infra-Red Spectroscopy (FTIR)	FLCV5318 NEN-EN-ISO 9622	L

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48.	Cream	Determination of fat, protein and dry matter content and freezing point; Fourier Transformed Infrared Spectrometry (FTIR)	FLCV5318 NEN-ISO 9622	L
49.	Whey	Determination of fat, protein and dry matter content; Fourier Transformed Infrared Spectrometry (FTIR)	FLCV5318 NEN-ISO 9622	L

Inorganic Analyses (Metal Analyses)

50.	Powdered and liquid milk products and infant food, and liquid rest products with destination raw material for animal feed	Determination of the content of elements; microwave destruction and Inductive Coupled Plasma – Atomic Emission Spectrometer (ICP-AES) sodium, potassium, calcium, magnesium, phosphor, iron, copper, zinc and manganese	FLCV5302 Powdered and liquid milk products and infant food ISO 15151 liquid rest products with destination raw material for animal feed in-house method (performance of analysis ISO 15151)	L
51.	Compound feed for young animals and ingredients	Determination of the content of copper; microwave destruction and Inductive Coupled Plasma – Atomic Emission Spectrometer (ICP-AES)	FLCV5302 in-house method in performance of analysis ISO 15151)	L
52.	Dairy products and infant food	Determination of components aluminium, chrome, molybdenum, lead, antimony, arsene, cadmium, cobalt, tin, mercury, selenium, nickel and strontium; microwave destruction and Inductive Coupled Plasma – Mass Spectrometer (ICP-MS)	FLCV5364 chrome, molybdenum and selenium ISO 21424 and AOAC 2015.06 remaining in-house method	L
53.	Water	Determination of components aluminium, chrome, molybdenum, lead, antimony, arsene, cadmium, cobalt, tin, mercury, selenium, nickel and strontium; microwave destruction and Inductive Coupled Plasma – Mass Spectrometer (ICP-MS)	FLCV5364 in-house method	L

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54.	Compound feed for young animals and ingredients	Determination of components lead, arsene, cadmium and mercury; microwave destruction and Inductive Coupled Plasma – Mass Spectrometer (ICP-MS)	FLCV5364 in-house method	L
55.	Powdered and liquid infant food, powdered and liquid dairy products and premix	Determination of (total) iodine; Inductive Coupled Plasma – Mass Spectrometer (ICP-MS)	FLCV0347 NEN-EN 15111	L

Inorganic Analyses (Wet Chemistry Analyses)

56.	Milk and milk products, compound feed for young animals and ingredients	Determination of nitrate content; segmented flow analysis	FLCV5086 milk and milk products NEN-EN-ISO 14673-2/IDF 189-2 remaining in-house method (performance of analysis NEN-EN-ISO 14673-2/ IDF 189-2)	L
57.	Milk and milk products and liquid rest products with destination raw material for animal feed	Determination of nitrite content; segmented flow analysis	FLCV5270 NEN-EN-ISO 14673-2/IDF 189-2	L
58.	Fats	Determination of FFA in fats; titrimetry	FLCV5095 in-house method	L
59.	Milk and milk products and infant food, water, liquid rest products with destination raw material for animal feed	Determination of chloride content; potentiometric titration	FLCV5151 milk and milk products, infant food ISO 21422 and AOAC 2016.03 water NEN 6476 liquid rest products with destination raw material for animal feed in-house method ISO 21422	L

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60.	Cheese, processed cheese, whey cheese, liquid and powdered dairy products and liquid rest products with destination raw material for animal feed	Determination of pH; potentiometry	FLCV5104 cheese, processed cheese and whey cheese NEN 3775 liquid and powdered dairy products and liquid rest products with destination raw material for animal feed in-house method	L
61.	Powered infant food and milk powders	Determination of moisture content (4 hr. 102°C); drying oven	FLCV5176 powdered infant food LKR zuigenligenvoeding appendix IX (1994) milk powders IDF 26A (1993)	L
62.	Butter	Determination of moisture content; Pumice method	FLCV5375 NEN-EN-ISO 3727-1/IDF80-1	L
63.	Sweetened condensed milk, cheese, processed cheese and liquid rest products with destination raw material for animal feed	Determination of dry matter content; sand method	FLCV5038 sweetened condensed milk ISO 6734/IDF 15 cheese and processed cheese NEN-EN-ISO 5534/IDF4 liquid rest products with destination raw material for animal feed in-house method	L
64.	Milk, sweetened condensed milk and liquid dairy products	Determination of dry matter content; glass fibre method	FLCV5039 milk NEN 6844 sweetened condensed milk ISO 6734/IDF 15 liquid dairy products in-house method	L

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65.	Powdered milk products and powdered infant food and milk	Determination of ash content (3hr. 525°C); Thermo Graphic Analyzer	FLCV5301 powdered milk products and powdered infant food NEN 6810 milk in-house method	L
66.	Powdered milk products	Determination of L-lactic acid content and lactates; enzymatic method	FLCV5116 in-house method	L
67.	Milk, milk powders and cheese	Determination of lactose content; Enzymatic method utilizing the galactose moiety of the lactose	FLCV5321 in-house method	L
68.	Milk, milk products, powdery dairy products, infant food and cheese	Determination of fat content; Röse-Gottlieb	FLCV5050 milk NEN-EN-ISO 1211/IDF 1 milk-, whey-, buttermilk- and butter serum powder NEN-EN-ISO 1736/IDF 9 evaporated and sweetened condensed milk NEN-EN-ISO 1737/IDF 13 cream NEN-EN-ISO 2450/IDF 16 skimmed- and buttermilk and whey NEN-EN-ISO 7208/IDF 22 infant food NEN-EN-ISO 8381/IDF 123 cheese and processed cheese NEN-EN-ISO 1735/IDF 5	L
69.	Milk and liquid dairy products	Determination of the content of nitrogen and calculation of the level of crude protein content; Kjeldahl	FLCV5080 milk NEN-EN-ISO 8968-1/IDF20-1 liquid dairy products in-house method	L

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70.	Powdered milk products and powdered infant food	Determination of the content of nitrogen and calculation of the level of crude protein content; Dumas method	FLCV5192 powdered milk product NEN-EN-ISO 14891/IDF 185 powdered infant food in-house method	L
71.	Sweetened condensed milk and powdered infant food	Determination of sucrose content; polarimetry	FLCV5225 sweetened condensed milk ISO 2911/IDF 35 powdered infant food in-house method	L
72.	Milk, cream and milk with flavours	Determination of phosphatase activity; fluorescence	FLCV5306 milk and milk with flavours NEN-EN-ISO 11816-1/IDF 155-1 cream in-house method	L
73.	Milk and cream	Determination of freezing point; thermistor cryoscope	FLCV5081 milk NEN-EN-ISO 5764/IDF 108 cream in-house method	L

Sensory analyses

74.	Powdered infant food	Determination of the sensorial quality; smell test	SGLV0001 ISO 22935-3	L
75.		Determination of the sensorial quality; taste test	SGLV0002 ISO 22935-3	L
76.		Determination of the sensorial quality; visual test (appearance)	SGLV0003 ISO 22935-3	L
77.		Determination of the sensorial quality; smell, taste and appearance; 5 point scale	SGLV0032 ISO 22935-3	L