

of **Pre Mervo
Quality Service
Utrecht**

Valid from: **16-07-2009** to **03-10-2010**

Replaces annex dated: **14-10-2008**

Premises: **n.a.**

No.	Material or product	Type of activity	Internal reference number
Weender analyses			
1	(Compound) feeds, feeding stuffs, moisture-rich feeds and roughage feeds	Determination of the content of moisture at 80°C, 103°C and 130°C; gravimetry	KWAWVO In house method Measurement in accordance with 152/2009/EG
2		Determination of the content of crude protein; titrimetry	KWAWRE Equivalent to ISO 5983-2
3		Determination of crude fat (direct extraction); gravimetry	KWAWRV In house method Extraction and measurement in accordance with 152/2009/EG, Method A
4		Determination of the content of crude fat after acid hydrolysis with Soxtec extraction; gravimetry	KWAWZH In house method Extraction and measurement in accordance with 152/2009/EG, Method B
5		Determination of the content of crude fibre; gravimetry	KWAWRC Equivalent to NEN-EN ISO 6865
6		Determination of the content of crude ash; gravimetry	KWAWAS In house method
7		Determination of the content of starch; polarimetry	KWAWZE Equivalent to ISO 6493
8		Determination of content of total sugar; titrimetry	KWAWTS In house method
9	Whey, Wheypowder and milkpowder	Determination of the content of lactose; titrimetry	KWAWTS In house method

This annex has been approved by:

Ir. J.C. van der Poel
Chief Executive

No.	Material or product	Type of activity	Internal reference number
10	Moisture-rich feeds and roughage feeds	Determination of moisture after pre-drying; gravimetry	KWAWVO In house method
Elements analyses			
11	(Compound) feeds, feeding stuffs, moisture-rich feeds and roughage feeds and premixes	Determination of phosphor (P); spectrofotometry	KWAEFO In accordance with ISO 6491, except for premixes: In-house method
12		Determination of the content of calcium (Ca), iron (Fe), potassium (K), sodium (Na), copper (Cu), magnesium (Mg), manganese (Mn) and zinc (Zn); AAS	KWAEAA In accordance with NEN-EN ISO 6869
13	(Compound) feeds and feeding stuffs	Determination of the content of chloride(Cl); titrimetry	KWAECH In house method
14	Premix-ingredients	Determination of the content of calcium (Ca), iron (Fe), potassium (K), sodium (Na), copper (Cu), magnesium (Mg), manganese (Mn) and zinc (Zn); liquid destruction; AAS	KWAEAA In-house method (destruction In-house method; measurement in accordance with NEN-EN-ISO-6869)
15		Determination of the content of phosphor (P); liquid destruction; spectrofotometry	KWAEFO In house method (destruction In-house method; measurement in accordance with ISO 6491)
Enzymatic analyses			
16	(Compound) feeds and feeding stuffs	Determination of soluble protein based on Cone-method*; titrimetry	KWAWCO In house method
17	Feeding stuffs, premix-ingredients and premixes	Determination of phytase activity based on BASF-testmethod 0857**; spectrofotometry	KWAFFY In house method
Potentiometric analyses			
18	(Compound) feeds, feeding stuffs, moisture-rich feeds, roughage feeds and faecal matter	Determination of pH; potentiometry	KWAWPH In house method (measurement in accordance with NEN-ISO 10523)

No.	Material or product	Type of activity	Internal reference number
Fotometric analyses			
19	(Compound) feeds and feeding stuffs	Determination of analytic components: moisture (at 80°C, 103°C and 130°C), crude protein, crude fat, crude fat after acid hydrolysis, crude fibre, ash, starch (Ewers), total sugar and the energetic components: VEM, OEIh, OEmk, EW and EW (gestation); Near Infra Red spectrometry	KWANNU In house method
Fat analyses			
20	Oil and fats	Determination of the peroxide number; titrimetry	KWAVPE Equivalent to ISO 3960
21	(Compound) feeds and feeding stuffs	Determination of the peroxide number in a fat-extract; titrimetry	KWAVPE In house method
22		In-house method (extraction in accordance with regulation 152/2009/EG - method A); titrimetry	KWAVVV In house method (extraction in accordance with regulation 152/2009/EG - method A)
23	Oil and fats	Determination of the content of water according to Karl-Fischer; titrimetry	KWAVVO In house method (implementation in accordance with NEN 3708)
24		Determination of the content of free fatty acids; titrimetry	KWAVVV In house method
25		Determination of insoluble impurities content in fat; gravimetry	KWAVVU In accordance with ISO 663
26		Determination of the level of saponification; titrimetry	KWAVVG In-house method
27		Determination of the fatty acid content, the amount of intact saponifiable fatty acids and linoleic acid; GC-FID	KWAVVS Preparation in accordance with NPR-CEN-ISO/TS 17764-1 and measurement in accordance with NPR-CEN-ISO/TS 17764-2
28	(Compound) feeds and feeding stuffs	Determination of the fatty acid content; GC FID	KWAVVS In house method (extraction in accordance with regulation 152/2009/EG - method A and measurement in accordance with NPR-CEN-ISO/TS 17764-2)

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Mycotoxin analyses			
29	(Compound) feeds and feeding stuffs	Determination of the content of aflatoxin B1; HPLC	KWAHAF In accordance with ISO 14718
Vitamins analyses			
30	Feeding stuffs, premix ingredients and premixes	Determination of the content of vitamin A; HPLC	KWAZAE In accordance with NEN-EN 12823-1
31		Determination of the content of vitamin E; HPLC	KWAZAE In accordance with NEN-EN 12822
Chemotherapeutic analyses			
32	Feedings stuffs, premix ingredients and premixes	Determination of the content of monensin; HPLC	KWADMS Feeds and premixes: in-house method (analysis in accordance with PDV TVM-D-12a), premix-ingredients: in-house method (measurement in accordance with TVM-D-12a)
33		Determination of the content of salinomycin; HPLC	KWADMS Feeds and premixes: in-house method (analysis in accordance with PDV TVM-D-12a), premix-ingredients: in-house method (measurement in accordance with TVM-D-12a)
Microbiological analyses			
34	Feeding stuffs and feeding stuffs	Enumeration of aerob bacteria at 30°C, colony count technique, PCA	KWABAE In accordance with ISO 4833
35		Enumeration of entero bacteriaceae at 37°C, colony count technique, VRBG (without confirmation)	KWABEK In accordance with NEN-ISO 21528-2
36		Enumeration of yeasts and moulds at 25°C ; colony count technique, OGGA	KWABGS In accordance with ISO 7954
37	(Compound) feed, feeding stuffs and swabs	Detection of Salmonella; border reaction, MSRV	KWABBS In house method
38	(Compound) feeds and feeding stuffs	Detection of sulphite-reducing Clostridia at 37°C, colony count technique, ISA	KWABCP Equivalent to ISO 15213

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39	(Compound) feeds and feeding stuffs and swabs	Detection of Salmonella, border reaction, PCR	KWABPC In house method

* Cone-method: Enzymatic determination of crude protein with aid of protease from *Streptomyces griceus*

** BASF-testmethod 0857: Phytase activity, manual vanadate method