SKIMMED MILK POWDER



PRODUCT DESCRIPTION

Skimmed milk powder is produced from cows' milk. After separation of milk into cream and skimmed milk, the skimmed milk is pasteurized, standardised, evaporated into a concentrate and then spray dried into powder form. The product complies with all valid EU legislation for food, especially regulation (EC) 852/2004 and regulation (EC) 853/2004 on the hygiene of foodstuffs.

CHEMICAL/PHYSICAL REQUIREMENTS

Criteria	Target value	Tolerance value
Moisture	3,7%	Max 4,0%
Fat content	< 1%	Max 1,25%
Titritable acidity (Adpi)	0,15%	Max 1,15%
Ash	8%	Max 8,5%
Protein (in fat free dry matter)	> 34%	Min 34%
Scorched particles	Disc A	Disc A/B
Solubility index	< 1ml	< 1ml

MICROBIOLOGICAL REQUIREMENTS

Criteria	Target value	Tolerance value
Total plate count	< 5.000 cfu/g	Max 10.000 cfu/g
Enterobacteriaceae	< 10 cfu/g	<10 cfu/g
E.Coli	Absent/1g	Absent/1g
Yeast and mould	< 10 cfu/g	Max 100 cfu/g
Salmonella	Absent/25g	Absent/25g
Listeria monocytogenes	Absent/25g	Absent/25g
Antibiotics / Delvotest	Negative	Negative

STORAGE

Recommended to store in a cool and dry place < 25°C and protected from sunlight.

SHELF LIFE

Shelf life minimum 18 months after production date, printed on the bag.



SWEET WHEY POWDER



PRODUCT DESCRIPTION

Spray dried crystallised sweet whey powder is manufactured from sweet, fresh and clean whey released during cheese production. After separation of the cheese fines and butterfat, the whey powder is evaporated and spray dried. The final product is a creamy white, fine free-flowing non-hygroscopic powder, free from lumps (except those that break up readily under slight pressure) coloured particles and foreign matter.

CHEMICAL CHARACTERISTICS

Milkfat	Max 1,5%
Moisture	Max 4,0%
Protein (N x 6,38)	Min 11%
Lactose	Min 68%
Minerals	Max 8,5%
Titratable acidity	Max 0,15%
Solubility	Max 1,25ml
Scorched particles	Max Disc B

MICROBIOLOGICAL CHARACTERISTICS

Bacterial estimate	Max 30.000/g
Coliforms	Absent in 0,1g
Germs and yeast	Max 100/g
Staphylococcus	Absent in 0,1g
Salmonella	Absent in 25g
Antibiotics	Negative

PACKAGING

The standard pack is a multiwall paper bag which incorporates an inner polyethylene bag liner that is heat sealed or goose-necked. No metal fasteners are used.

Net weight	25,0kg
Gross weight	25,4kg



WHOLE MILK POWDER



PRODUCT DESCRIPTION

Spray-dried whole milk powder.

WPNI* (mg/g) < 4

*Whey Protein Nitrogen Index - typical value

SENSORICAL DESCRIPTION

Colour	White to cream
Taste and odour	Milky

COMPOSITION/100G PRODUCT

Moisture	Max 3,0%
Protein/NFDM* (Nx6.38)	Min 34,5%
Fat	Min 26,0%
Lactose**	Max 41,0%
Minerals	Max 6,5%

^{*} NFDM non fat dry matter

APPLICATION

Whole milk powder recommended for a wide range of food applications: bakery, drinks, desserts, ice cream ...

CHEMICAL AND PHYSICAL CHARACTERISTICS

Nitrates	Max 50ppm
Titratable Acidity	Max 0,15%
Scorched particles (ADPI /25g)	Disc A
рН	6,6 ± 0,2
Solubility	99%
Bulk density (g/1)	500-650
Antibiotics	None

MICROBIOLOGICAL CHARACTERISTICS

Total plate count	< 10.000 cfu/g
Yeasts and moulds	< 10 cfu/g
Coliforms	< 10 cfu/g
E Coli	Absent in 1g
Salmonella	Absent in 375g

NUTRITIONAL VALUES (CALCULATED)

Energy/100g	2075kJ / 495Kcal
Sugar (Lactose)/100g	41g
Saturated fatty acids/100g	17g
Sodium/100g	0,4g

STORAGE AND SHELF LIFE

- 6 months in big bag
- 12 months in non-opened bag in a cool and dry place away from all sources of contaminating odours and tastes

STANDARD PACKAGING

- 25kg bags, multiwall kraft paper bag with inner polyethylene bag liner
- Big bag

SUGGESTED LABELLING

Whole milk powder.

ALLERGENS

The milk powder contains the following allergens: milk protein, lactose.

The milk powder contains no gluten.

GMO

The ingredients contain no genetically modified organisms and as such are not concerned by a labelling requirement (Regulation 1829/2003/EC and 1830/2003/EC and subsequent amendments).



^{**} by difference

WHOLE MILK POWDER CONTINUED



CONTAMINANTS

According to the monitoring plan, the milk powders meet the European standards or at least Codex recommendations, in terms of:

- heavy metals: lead (Pb), arsenic (As), cadmium (Cd), mercury (Hg)
- pesticides
- aflatoxins
- dioxins, furans, PCBs (polychlorinated biphenyls)
- · melamine
- · radioactivity

The powders do not contain antibiotics.

They underwent neither irradiation nor ionization.

HEAT TREATMENT

According to regulation, the heat treatment of milk is at least 72°C/15 sec (or temperature / time equivalent).

PACKAGING COMPLIANCE

The materials used to package our milk powders comply with European regulation EC 1935/2004 (and subsequent amendments) for materials and articles intended to be in contact with foodstuffs.



MILK PROTEIN CONCENTRATE POWDER (MPC 85)



PRODUCT DESCRIPTION

Milk protein concentrate is powder of total milk protein processed by ultrafiltration and spray drying process. It is made from 100% EU milk and can be used as an ingredient in the manufacture of other foodstuffs.

SENSORICAL DESCRIPTION

Colour	White creamy
Consistency	Dry fine powder, allowed individual lumps, easily delaminating with mechanical impact
Taste and odour	Typical for milk protein concentrate powder, free of foreign taste or odour

CHEMICAL AND PHYSICAL CHARACTERISTICS

Moisture (not more than)	6,0%
Fat (not more than)	2,0%
Protein (Nx6,38) (not less than)	80%
Protein in dry matter (not less than)	84,2%
Lactose	5,5% normally
Ash (not more than)	8,5%
pH (10%/20°C)	6,7 – 7,0
Insolubility index (60°C) (not more than)	1,0ml
Scorched particles, disc	A
Bulk density (625x)	400-500 g/ml
Poured bulk density	280-380 g/ml
Heat stability	Yes
Inhibitory substances	Not detected
Pharmacologically active substances	Not exceeding the limits set in regulation (EC) No 37/2010

Combined total of residues of all substances	Not exceeding values fixed in regulations (EC) No 1881/2006, (EC) No 396/2005
Physical hazard	Not foreign impurities that may cause health risk to the consumer

MICROBIOLOGICAL CRITERIA

Aerobic plate count	< 10.000 cfu/g
Coliforms	< 10 cfu/g
Yeast and mould	< 50 cfu/g
Enterobacteriaceae	< 10 cfu/g
E. Coli	< 10 cfu/g
Listeria monocytogenes	Absent/25g
Salmonella	Absent/25g
Coagulase-positive staphylococci	< 10 cfu/g
Bacillus cereus	< 10 cfu/g

GMO STATUS

Product does not contain Genetically Modified Organisms (GMO), is not produced from GMO and does not contain any GMO ingredients.

ALLERGENS

Milk and products thereof (including lactose).

PACKING

Multiply paper bags with polyethylene liner 20kg net.

STORAGE AND SHELF LIFE

From the date of production at a humidity not up 75%, not longer than 18 months at a temperature not up $+25^{\circ}$ C.







PRODUCT DESCRIPTION

Cream is a non-homogenized pasteurized product derived from cow's milk by centrifugation with a characteristic light yellow colour and a smooth and homogenous structure.

The product does conform with the EU Regulation EC No.852/853 2004.

CHEMICAL, PHYSICAL, MICROBIOLOGICAL AND ORGANOLEPTIC CHARACTERISTICS

Parameter	Target value	Rejection limit
Temperature at reception resp. at loading	≤ 6°C	> 10°C
Organoleptic and sensory characteristics, including foreign bodies	Regular ¹	Irregular ²
Fat content	39 – 42%	< 38 or > 43%
рН	6,65 – 6,75	< 6,6 or > 6,8
Inhibitors / antibiotics	Absent	Present
Freezing point	-0,515°C	-0,500 – -0,550°C
Total Viable Count (TVC)	< 10.000 cfu/ml	> 50.000 cfu/ml
Enterobacteriacea	≤ 10 cfu/ml	> 100 cfu/ml
Phosphatase	Negative	Positive
Peroxidase	Negative	Positive
Coliforms	≤ 10 cfu/ml	> 100 cfu/ml
Listeria monocytogenes	Absent	Present
Salmonella, cfu/25g	Absent	Present

¹ Regular appearance is white to yellow colour. Regular taste and smell is fresh.

² Irregular taste and smell would be chemical, rancid, tallow, boiled/burned or any other off taste or smell. Irregular sensory would be crystallised, not homogenous, not pumpable.



PRODUCT DESCRIPTION

Skimmed Milk Concentrate is produced from fresh pasteurized skimmed cow's milk by concentration up to 35% dry matter.

PARAMETERS BY DELIVERY

Parameters by delivery*	Typical value	Specification
Dry matter	35,0%	34,0% min
рН	6,5	6,2 - 6,9
Titratable acidity (% lactic acid)	0,15%	0,17% max
Colour	White, pale yellow homogeneous liquid	
Taste and odour	Clean and milky taste and smell	
Temperature	4°C	6°C max at point of loading
Antibiotics	Absent	Absent

PARAMETERS BY MONITORING

Parameters by monitoring**	Typical value	Specification
Protein in non fat dry matter (N x 6.38)	36,0%	34,0% min
Whey Protein Nitrogen (WPN index)	≥ 6,0mg/g	≥ 6,0mg/g
Fat	0,5%	1,0% max
Standard plate count	< 10.000cfu/g	30.000/g max
Yeast and moulds	< 1cfu/g	10cfu/g max
Salmonella	negative / 25g	negative / 25g

STORAGE AND SHELF LIFE

Four days after dispatch, if transported and stored at less than 6°C.

PACKAGING

Bulk.

QUALITY AND ASSURANCE

The product is manufactured in accordance with international standards and guidelines. Each package is marked to enable trace back.

- * Parameters to be analyzed by producer and to be reported at delivery of the goods.
- ** Monitoring frequency on a monthly basis.



LACTIC BUTTER



PRODUCT DESCRIPTION

Mild lactic butter is produced from pasteurized cream with the addition of lactic acid and acidifying microbial cultures according to the NIZO procedure. The product is conform with the EU-Regulations (EC) 852/2004 and (EC) 853/2004.

SENSORY DESCRIPTION

Appearance	Creamy, light yellow
Texture	Smooth
Taste/Odour	Typical sourish

NUTRITIONAL VALUE/100G

Energy value	3.056/743kcal
Protein	0,7g
Carbohydrates	0,6g
Sugar	0,6g
Fat	82g
Saturated fatty acids	49,6g
Sodium	0,01g

CHEMICAL/ PHYSICAL REQUIREMENTS

Criteria	Values min/max	Unit
Fat content	Min 82	%
Moisture	Max 16	%
рН	Max 5,3	

MICROBIOLOGICAL REQUIREMENTS

Criteria	Max	Unit
Enterobacteriaceae	< 10	cfu/g
Coliform germs	< 10	cfu/g
Listeria monocytogenes	0	cfu/g
Salmonella	0	cfu/25g
Staph aureus	< 10	cfu/g
Bacillus cerus	< 10	cfu/g

ALLERGENS AND GMO

The product contains lactose and milk protein.

The butter is not produced by genetic engineering and does not contain genetically modified microorganisms. The product is conform with the legal requirements on labeling and traceability of GMO foods as set by EU regulation (EC) No. 1829/2003 and (EC) No. 1830/2003.

PACKAGING, BEST BEFORE DATE AND STORAGE CONDITIONS

25kg cartons with PE-inner liner packed on pallets.

If the product is frozen and will be stored at -18°C, we will provide a shelf life of 12 month after production date. In case goods are delivered fresh or defrosted, we provide a shelf life of 32 days after delivery (storage conditions < 6°C).



SWEET CREAM BUTTER



PRODUCT DESCRIPTION

Pasteurized sweet cream.

CHEMICAL REQUIREMENTS

Moisture	Max 16%
Fat	Min 82%
Pasteurization	Positive
рН	6,5 – 6,8
Free fatty acids	< 0,35%

MICROBIOLOGICAL REQUIREMENTS

Total plate count/1g	< 1.000 cfu
Coliforms/1g	Negative
Yeast and moulds/1g	< 50 cfu
Staphylococcus aureus/0,1g	Negative
Enterobacteriaceae/1g	Negative
Listeria monocytogenes /25g	Negative

PACKAGING

25kg block in plastic film and carton.

SHELF LIFE/STORAGE

Shelf Life	Storage Temperature
50 days since manufactured	0°C/+10°C
2 months since manufactured	-10°C
12 months since manufactured	-18°C

GOUDA CHEESE 48%



PRODUCT DESCRIPTION

Gouda 48% fat in dry matter, matured in foil, 15kg Euroblock, semi-hard cheese, matured at least three weeks – max 6 weeks old, suitable for slicing, at loading max 4 days palletised 100x120cm.

INGREDIENTS

Pasteurised cow's milk, salt, cheese-making cultures, calcium chloride*, microbial rennet.
*no declaration obligation.

SENSORICAL CHARACTERISTICS

Outer appearance	Rindless, smooth surface
Inner appearance	Ivory-coloured to yellow, occasional round and oval holes of pea-size
Texture	Smooth dough, semi-hard to firm
Taste	Mild and pure, not sour

CHEMICAL AND PHYSICAL CHARACTERISTICS

Parameter	Min	Target	Max
Fat	27,5%	29,0%	30,5%
Dry matter	57,0%	58,0%	59,0%
Fat in dry matter	48,0%	_	_
Water content in nonfat cheese	54,0%	_	63,0%
Salt	1,5%	1,7%	2,1%
рН	5,2	5,35	5,5

MICROBIOLOGICAL CHARACTERISTICS

Parameter	Max	Method
Enterobacteriaceae	100 cfu/g	VDLUFA M7.4.2
E. Coli	10 cfu/g	Direct Plating Method by Anderson & Baird- Parker
Yeast and mould	500/100 cfu/g	VDLUFA M7.7.2
Salmonella	Neg/25g	ISO 6579
Listeria monocytogenes	Neg/25g	DIN EN ISO 11290-1
Coagulase-pos. staphylococci	10 cfu/g	ISO 6888-1
Clostridia	300 cfu/g	VDLUFA M 7.18.2.1
Sulfit-reducing clostridia	100 cfu/g	VDLUFA M 7.18.4

NUTRITIONAL VALUE/100G PRODUCT

Energy	1502kJ/362kcal
Fat	29,0g
of which saturates	19,4g
Carbohydrates	< 0,1g
of which sugars	< 0,1g
Fibres	Og
Protein	24,0g
Salt	1,7g

Gluten free and lactose free (lactose content < 0,1g/100g)



GOUDA CHEESE 48% CONTINUED



ALLERGENS

Milk and products thereof (including lactose).

STORAGE AND SHELF LIFE

• Storage conditions: +4°C to +8°C

• Expiry from date of production: 12 months

STANDARD PACKAGING

Standard Packaging	Block	Pallet
Length x breadth x height	500mm x 300mm x 100mm	1.200mm x 1.000mm x 700mm
Height incl pallet	_	860mm
Weight	15kg	840kg

Packing material: maturing foil made of PE/PA/PE.

FOOD LEGISLATION

This product, including its packaging and labelling, complies with the applicable German and EU legislations and has been produced or treated under satisfactory conditions, with the appropriate care and using the appropriate hygiene and quality controls.

GMO

The product is not produced by genetic engineering and does not contain genetically modified microorganisms, and as such is not subject to declaration of ingredients in accordance with directives 1829/2003 and 1830/2003.

CONTAMINANTS

Heavy metals, pesticides, PCBs, mycotoxines, dioxines, inhibitors.

Conforms to EU regulations.

SKIMMED MILK POWDER ANIMAL NUTRITION – VGM



COMPLIANCE

Skimmed milk powder must comply with the European / Dutch law and is of merchantable quality. All feed products must be GMP+ and all suppliers must be GMP+ certified. In addition the skimmed milk powder animal nutrition needs to meet the following specifications.

CHEMICAL / PHYSICAL PROPERTIES

Moisture	4,5% max
Fat	1,5% max
Ash	9,0% max
Phosphates	Negative
Protein (N x 6.38)	35,0% min in the product
Whey content	0,7% max by RP-HPLC method
Whey content	1,6% max by GP-HPLC method
pH (10%)	6,45 – 6,65 min
Solubility	98,0% min
Purity	Dics B (ADPI) max
Appearance, colour, taste and smell	Not abnormal

MICROBIOLOGICAL / BACTERIOLOGICAL

Plate count	100.000/g
Salmonella	Negative/25g/n=5, c=0
Coliforms	< 5/g

RESIDUES

Antibiotics	Negative according Delvo-test
Chloramphenicol	Max 0,3ppb
Nitrite	Max 10ppm

Examining the quality and / or composition takes place according to the COKZ at the time of research methods prescribed if no other methods have been agreed.



SWEET WHEY POWDER ANIMAL NUTRITION – VGM



COMPLIANCE

Sweet whey powder must comply with the European / Dutch law and is of merchantable quality. All feed products must be GMP+ and all suppliers must be GMP+ certified. In addition the sweet whey powder animal nutrition needs to meet the following specifications.

CHEMICAL/PHYSICAL

Moisture	4,5% max
Fat	1,5% max
Ash	9,0% max
Phosphates	Negative
Protein (N x 6.38)	11,0% min in product
Lactose	67,0% min
Lactic acid	2,5% max
pH (10%)	6 min
Solubility	98,0% min
Purity	Dics B (ADPI) max
Appearance, colour, taste and smell	Not abnormal

MICROBIOLOGICAL/BACTERIOLOGICAL

Plate count	100.000/g
Salmonella	Negative/25g/n=5, c=0
Coliforms	< 5/g

RESIDUES

Antibiotics	Negative according Delvo-test
Chloramphenicol	Max 0,3ppb
Nitrite	Max 10ppm

Examining the quality and / or composition takes place according to the COKZ at the time of research methods prescribed if no other methods have been agreed.

