

<b>PS-921680-E</b> Versie: 5.1 Pag. 1/2 Datum: 13-07-2007	<b>PRODUCTSPECIFICATION</b>
	Quality Assurance
	<b>FCMP 28,1 % Instant MH + Vitamins, UACCF 390217</b>

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### Product Characteristics

Productname	: Full Cream Milk Powder 28,1% Instant Medium Heat + vitamin. A+D <sup>3</sup> .
Application	: Divers.
Shelf life	: 9 months from production date.
Composition	: Whole milk and lecithin, vitamin A and vitamin D <sup>3</sup> .
Description	: The full cream milkpowder, spray dried, agglomerated, lecithinated and vitaminized is the product from the removal of water from fresh, standardized milk, produced by healthy cows.
Sensorial	: Typical milky, no off-taste or off-odour.
Structure	: Homogeneous powder, without hard lumps.
Colour	: White to creamy.

<b>Properties:</b>	<b>Specification :</b>	<b>International method:</b>	<b>Internal method:</b>
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#### Chemical analysis

Milkfat	≥28,1 – ≤ 28,9%	IDF 9C-1987/NEN 3168	52.008
Moisture	≤ 3,0 %	IDF 26A-1993	52.015
Free fat	≤ 3,0 %	Niro A 10a (3 <sup>rd</sup> ed.)	
Lecithin	0,15 – 0,25 %	NIRO 4 ED (1978)	
Nitrate	≤ 30,0 mg/kg SNF	IDF 95A	52.004
Lactate	≤ 100,0 mg/100gSNF	IDF 69B	52.004
Titratable acidity	≤ 18,5 mmol/100g SNF	IDF 86	52.010
Phosphatase	negative	FNZ 2.5	51.024
Lactose	approx. 36,5 %	IDF 79B-1991	
Protein (Kjedahl on m.s.n.f.)	≥ 37,5 %	IDF 20A-1986 / NEN 6833	
Ashes	approx. 5,5 %	IOCCC 104 – 1988	
Vitamin A	2650 - 3650 IU/100g	IDF 142A (1992)	calculated
Vitamin D <sub>3</sub>	360 - 460 IU/100g	AAC 15ED (1990)	calculated

#### Physical analysis

Scorched particles	A	ADPI bulletin 916	52.006
Solubility index	≤ 0,5 ml	IDF 129A-1988	52.001
Dispersibility	≥ 90 %	IDF ZKB	52.014
Wettability (at 25°C)	≤ 30 sec.	IDF 87	52.003
Bulkdensity (100 x)	1,75 – 2,00 ml/g	Ledoux	52.007
WPN-index	2,5 – 4,0 mg/g SNF	IDF 114 (1982)	
O <sub>2</sub> content after 7 days	≤ 3 %		52.090
CO <sub>2</sub> content on arrival	10 – 25 %		52.090

#### Coffee test

Sinkability	< 10 sec.	QA742 (2002)
Floating particles	none	
First sediment	some	
Second sediment	none	

#### Dispersibility test in water 25°C

Floating particles	none	QA743 (2002)
SPD index	max D	
Sludge (sediment)	max 0,15 g	

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**PRODUCTSPECIFICATION**

Quality Assurance

**FCMP 28,1 % Instant MH + Vitamins, UACCF  
390217**

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	n	c	Specification :		International method:	Internal method:
			m	M		
<b>Bacteriological</b>						
Total plate count	5	2	3.000	10.000/g	IDF 100B: 1991	51.001
Salmonella	15	0	0	0/50g	AOAC 995.07	MSRV
Staph. Aureus	5	1	< 0.3	1/g	IDF 60B (1990)	51.035
Yeasts & moulds	5	2	50	100/g	IDF 94B: 1990	51.020
Enterobact.	5	2	< 3	10/g	ISO 8523 (1991)	51.012
Bac. Cereus	5	2	100	200/g	ISO 7932 (1987)	51.018

**Contaminants**

Antibiotics (Delvo-SP)	negative	COKZ	51.016
Aflatoxin M1		according to EC & Dutch legislation (max. 0,05 µg/kg milk)	
Pesticides, heavy metals and PCB's		according to EC & Dutch legislation	
Free from neutralizing agents and preservatives in accordance with EC & Dutch legislation.			
Radio activity (Cs 134/137)	Max. 150 Bq.kg		

**Packaging**

Multi-ply paperbags with innerbag of PE with EVOH barrier layer.

**Transport**

- Dry clean container/truck.

**Storage**

- Dry, dark and cool.