

Certified Reference Values



Production date: 03-06-2024

Batch: 23 - 2024

Type	Unhomogenised past. milk	Unhomogenised past. cream										
	Buttermilk	6,5%	8%	9,5%	11%	12%	14%	18%	32%	38%	46%	50%
Fat (g/100 g) ≤8%+9,5%: ISO 1211/IDF 1:2010 ≥9%: ISO 2450/IDF 16: 2008	0,724	6,407	7,978	9,544	10,982	11,940	13,873	18,011	32,050	38,154	44,732	50,041
Protein (g/ 100 g) ISO 8968-1/IDF 20-1:2014	3,473	3,431	3,384	3,364	3,304	3,277	3,213	3,045	2,502	2,255	1,925	1,777
Lactose, Mono (g/100 g) ISO 5765-2/IDF 79:2002										3,141		
Dry Matter (g/100 g) ISO 6731/IDF 21:2010			16,639	18,124		20,239	22,023	25,735	38,543	44,043	49,823	54,903

** Increase uncertainty (U×2)

Version 1

The results apply only the received batch
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Date: 06-06-2024

CRM Approver, Bente Østergaard

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Information, if any:

Informations according to the certified reference material:

Description
Fresh Bovine Milk from Danish Dairies.
The Samples are added preservative.

The certified values are calculated by accredited reference methods.
Because of the short validy period, the reference value is done by one laboratory, but in several determinations and batch.
Bias are checked by comparing with FTIR values from Eurofins Milk Testing.
Homogeneity are checked on Reference values and FTIR values.
Stability has been calculated for a representative batch.

Instruction for handling and use:
The Samples are set at room temperature for 60 min, then heated in water bath to 38°C for 20 min.
Gently invert the Samples 20 times and measure immediately on FTIR equipment
The Samples can´t be reused

Sample size:
Tube with 50mL

Period of validity:
14 days at 4°C ± 2°C from production date.

Storage information:
Store at 4°C ± 2°C until use.

The Reference Laboratory have some approved modification:
Fat: Drying fixed time instead of to constant weight
Protein: The destruction don´t start with low temperature, but starts at 420°C
Dry Matter: Using dispoible cups without lids instead of glass bowls with lids.

The Samples are calculated with following expanded uncertainty U%

	U%
Fat	1,5%
Protein	1,5%
Lactose	2,0%
Dry Matter	1,0%