

Certified Reference Values



Milk Testing

Production date: 17-07-2023

Batch: 29 - 2023

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	0,752	6,515	8,107	9,605	11,235	12,013	**14,029	18,018	32,463	38,679	45,120	48,841
Protein (g/100 g) ISO 8968-1/IDF 20-1:2014	3,426	3,492	3,429	3,374	3,310	3,167	3,117	2,975	2,431	2,213	1,904	1,819
Lactose, Mono (g/100 g) ISO 5765-2/IDF 79:2002										3,040		
Dry Matter (g/100 g) ISO 6731/IDF 21:2010			16,769	18,098		20,154	21,959	25,622	38,725	44,468	50,122	53,766

**** Increase uncertainty (U×2)**

Version 2

Date: 21-07-2023

CRM Approver, Bente Østergaard

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The results apply only the received batch

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Information, if any:

Result on sample 14% fat is with increase uncertainty (U×2)

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 validity 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 disposable 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%