

Certified Reference Values



Production date: 02-12-2024

Batch: 49 - 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	0,649	6,501	7,915	9,503	10,906	11,940	13,920	18,126	32,429	38,009	45,069	48,049
Protein (g/ 100 g) ISO 8968-1/IDF 20-1:2014	3,437	3,738	3,691	3,609	3,545	3,490	3,398	3,224	2,572	2,331	2,011	1,894
Lactose, Mono (g/100 g) ISO 5765-2/IDF 79:2002										2,993		
Dry Matter (g/100 g) ISO 6731/IDF 21:2010			16,829	18,258		20,387	22,175	25,973	38,823	43,988	50,438	53,470

** Increase uncertainty (U×2)

Version 1

Date: 05-12-2024

CRM Approver, Bente Østergaard

The results apply only the received batch
The results may not be reproduced, except in their entirety, without written permission from the Laboratory.

Contact: calibration@ftn.eurofins.com

Information, if any:

Informations according to the certified reference material:

Description

Bovine milk from Danish Dairies.
CRM has preservative added.

The certified values are calculated based on results from chemical analysis.

Because of the short validy period, reference analyses
is carried out at one laboratory only, but in several determinations
and batches for statistical robustness.

Homogeneity iscontrolled on data from both chemical and FTIR analysis.
Stability has been calculated for a representative batch.

*Following changes to the above methods have been made.
Fat: The drying is with a constant time instead of constant weight.
Protein: The destruction does not take place at lower temperatures, but starts at 420°C.
Dry matter: Single-use vials without lids are used instead of vials with lid, and the samples are not pre-dried before placed in the oven.

Instruction for handling and use:

Place the CRM at room temperature for 60 min, then heat in water bath to 38°C for 20 min.
Gently invert the CRM 20 times and measure immediately on FTIR equipment
Samples can´t be reused. Once heated, please discard any remains after measurements have finished.

Sample size:

Approx. 50 mL.

Period of validity:

14 days at 4°C ± 2°C from production date.

Storage information:

Store at 4°C ± 2°C until use.

The Samples are calculated with following expanded uncertainty U%

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