

# CERTIFICATE FOR SHOCK-FROZEN CERTIFIED REFERENCE MATERIAL

Version 1



Milk Testing

**Batch** Skimmed milk May-2025  
**Intended use** FTIR analysis and reference methods

Name Type	SKM skm
<b>Fat</b>	<b>0,079</b>
<i>Fat, U (abs)</i>	<i>0,017</i>
<b>Protein</b>	<b>3,868</b>
<i>Protein, U (abs)</i>	<i>0,067</i>
<b>Lactose</b>	<b>4,845</b>
<i>Lactose, U (abs)</i>	<i>0,141</i>
<b>Dry Matter</b>	<b>9,686</b>
<i>Dry Matter, U (abs)</i>	<i>0,176</i>

## REFERENCE

Fat ISO 1211:2010, Röse Gottlieb  
Protein ISO 8968-1:2014, Kjeldahl  
Lactose, mono ISO 22662:2017, HPLC - AOAC 982.14, HPLC - ISO 5765:2002, Enzymatic  
Dry Matter ISO 6731:2010, Gravimetric

Production month: Maj-2025  
Valid until: Nov-2026

Approval date: 01-07-2025

Approved by:

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## INFORMATION REGARDING THE CERTIFIED REFERENCE MATERIAL (CRM)

### Description

Shock-Frozen Danish Skimmed Milk.

The certified reference values are calculated based on accredited reference method results. For fat, protein, and dry matter, the CRM reference values comprise results from seven laboratories. For lactose, the CRM reference values comprise results from five laboratories.

Homogeneity is evaluated using the individual results from each laboratory and FTIR analysis values from Eurofins Milk Testing Denmark. Stability is evaluated based on FTIR analysis results from Eurofins Milk Testing Denmark.

The CRM reference values are statistically evaluated using Grubbs's Outlier Test.

### Instructions for Handling and Use

The samples are thawed in a water bath to reach a temperature of  $40 \pm 1^\circ\text{C}$  in approximately 50 minutes. Gently invert the samples 20-30 times and confirm that the sample material looks like natural skimmed milk. The samples are now ready for analysis on an FTIR instrument or can be used as standard by reference method. If the samples need cooling before use, do this in a tempered water bath. The samples must not be stored and reused.

### Sample Size

One vial contains 50 mL of sample material.

### Validity Period

1 1/2 year at  $-18^\circ\text{C}$  to  $-20^\circ\text{C}$ .

### Storage Information

Store at  $-18^\circ\text{C}$  to  $-20^\circ\text{C}$  until use.

### Information

If there are any relevant observations regarding the samples, please contact Eurofins Milk Testing Denmark. E-mail: calibration@ftn.eurofins.com