

# CERTIFICATE FOR SHOCK-FROZEN CERTIFIED REFERENCE MATERIAL

Version 1

**Batch** Permeate Nov-2023  
**Intended use** FTIR analysis and reference methods



Milk Testing

| Name             | Permeate     |
|------------------|--------------|
| <b>Protein</b>   | <b>0,173</b> |
| Protein, U (abs) | 0,032        |

## REFERENCE

Protein ISO 8968-1:2014, Kjeldahl

Production month: Nov-2023  
Valid until: Nov-2024  
Approval date: 2023.12.14

Approved by:

Bente Østergaard  
CRM Responsible

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## INFORMATION REGARDING THE CERTIFIED REFERENCE MATERIAL (CRM)

### Description

Shock-Frozen Danish Raw Permeate.

The certified reference values are calculated based on accredited reference method results.  
The CRM reference values comprise results from seven 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 raw milk.  
The samples are now ready for analysis on an FTIR instrument or can be used as standard by reference methods.  
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

12 Month 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