

INSTRUCTIONS FOR THE RECEPTION, AND

USE OF REFERENCE MATERIALS

Sample Reception

1. Upon reception of your package, verify its contents to ensure that your order is complete and has arrived in good condition.
*If you discover a discrepancy in your order, or if package was damaged during transport, please contact us at reference@lactanet.ca as soon as possible after reception.
2. Reference materials are shipped in a box cooler with ice packs by express courier to maintain a temperature of between 2.0 - 8.0 °C during transport. Please note that the reference materials are preserved with bronopol for stability*. If your package is received at between 8 °C and room temperature (20-25 °C), please refrigerate the samples and proceed with analysis. If the samples are received at a temperature above 25 °C, please contact us at reference@lactanet.ca
3. Reference materials should be refrigerated upon arrival to maintain a temperature of between 2.0 - 8.0 °C until the analyses can be performed.

Sample Analysis

It is important to treat reference materials like any other routine samples analyzed on your instrument. Consult your instrument user manual. The process recommended by Lactanet is:

- 1- Use a water bath to heat the reference material. The bath temperature should ideally be kept between 38 °C and 42 °C to bring the samples to a temperature of 38-42 °C. This usually takes 10-15 minutes. Reference materials should not stay in the water bath for an extended period after they have reached the desired temperature and are meant for a single use (not to be reheated). Measuring samples at a colder temperature may affect repeatability.
- 2- Mix the reference material by gently and repeatedly turning the bottle upside down to ensure that it is homogenous. Raw milk, and cream samples will have a layer of fat at the top of the bottle, and it is therefore important to incorporate this fat during the heating process. Do not shake milk or cream samples vigorously as this may create air bubbles, cause the milk to separate, or damage the cells.

*Please consult the material safety data sheet for the use and disposal of Brotab Milk Preservative.

Certificates of Analysis

Reference materials are shipped to you on Mondays, before the certificates are available, in order to avoid shipping delays and ensure that they are already in our client's possession as soon as the certificates are released.

Certificates of analysis can be found on the Lactanet site by the Thursday of the week that the reference material are shipped to you.

<https://lactanet.ca/en/lab-services/resultats-reference-etalons/>

Purchased protein and casein results will be sent to your specified email address by Thursday of the week that the reference materials are shipped to you.

Intended use

The reference materials (RM) shall be used primarily for the calibration of infrared instruments.

The control samples (-C) shall be used as a reference sample with known values for the validation and/or verification of infrared instruments and/or analytical methods and their instruments.

Normal use of the RM fulfills the traceability requirements of ISO 17025:2017.

Homogeneity and stability studies are available for RM.

Where provided, uncertainty corresponds to the expanded uncertainty at a confidence level of 95% using a coverage factor of $k=2$.

Reference:

Fossomatic TM 7 User Manual 6007/1937 Rev. 5