Reference Material - Data Summary Sheet

GP Batch: 1018-C-1

Product Type: Whole Milk Powder

Issue Date: 17 December 2025

Expiry Date: 11 March 2027

Test Name	n Labs	n Values	Mean	Uncertainty [1] of Mean	k	Methods
Ash (%)	4	14	4.26	+/- 0.01	2.16	APHA 15.041 (Mod), BS1743 (Mod), GB5 009.4 (Method I), NZTM3.4.2, NZTM3.4.4
Fat RG (%)	5	17	28.17	+/- 0.07	2.12	GB5009.6 (Method III), ISO 23318/IDF 249 , NZTM3.6.3
Moisture 102°C (%)	7	26	3.01	+/- 0.04	2.06	AS2300.1.1, GEA Niro Method A1b (Mod), IDF 26A, NZTM3.12.8
pH (pH units)	6	22	6.79	+/- 0.03	2.08	APHA 15.022, APHA 18.022, AS2300.1.6, NZTM3.2.8
Protein Kjeldahl (%)	6	22	23.45	+/- 0.04	2.08	GB5009.5 (Method I Kjeldahl), ISO 8968-1 /IDF 20-1
WPNI (mg/g SNF)	3	12	2.9	+/- 0.1	2.20	NZTM3.15.6

[1] *Uncertainty of Mean is an expanded standard error of the mean (SEM) with a level of confidence of 95%. The coverage factor (k) is the critical value of Student's t distribution with n - 1 degrees of freedom. This uncertainty may only represent the measurement reproducibility of the data used. It does not include all known associated uncertainties and does not suggest that all methods used are statistically equivalent.*

Intended Use: For the verification of analytical methods used to determine attributes of Whole Milk Powder

Description: 80 g+ packed in a foil-laminated sachet

Homogeneity: This reference material has been assessed as homogeneous.

Stability: An expiry period consistent with the shelf life of the unopened product and/or estimated from stability studies has been applied.

Storage: Store samples at < 30°C. Once opened, samples will be unstable due to moisture absorption.

Instructions for Use: Sample test portion size must be as stated in the method used in your laboratory; modification could invalidate the Reference values. The reference values provided for this product are only valid for a single use.

Reference Values: The Mean is the simple mean excluding outliers; *n labs* is the number of laboratories who contributed results, and *n values* is the number of results used to calculate the mean. The uncertainty of the mean is the range within which the true mean of the population can be expected to lie with 95% confidence. This value is derived in accordance with the procedures described in ISO 33405:2024 "Reference materials - Approaches for characterization and assessment of homogeneity and stability".

Quality Statement: The values shown have been generated from data submitted in an inter-laboratory comparison programme (ILCP). The ILCP and reference material production are accredited to ISO/IEC 17043:2023 and ISO 17034:2016 respectively. Generation of this reference material also includes the requirements of ISO 33401 and 33405, which relate to production, characterisation and final product presentation.

Global Proficiency Limited
10 Bisley Road, Enderley, Hamilton 3214, New Zealand
p +64 7 850 4483
e sales@global-proficiency.com
w www.global-proficiency.com

Authorised by: Thomas Kuhn (Global P) - Key Technical Person



Global Proficiency Limited
10 Bisley Road, Enderley, Hamilton 3214, New Zealand
p +64 7 850 4483
e sales@global-proficiency.com
w www.global-proficiency.com