

Reference Material and Inter-laboratory Quality Control Materials Product Summary

August 2025

Version: 1

Assigned Values: Values provided have been generated from Inter-Laboratory Proficiency Programmes (ILPP) or from data provided by laboratories for the purpose of characterisation. The reference material values provided in this summary are the mean of the results after the exclusion of statistical outliers. The Assigned Range provided for the Inter-laboratory QC Materials is the range of test values available for purchase. Each Reference and QC Material comes with a Data Summary Sheet.

Missing Values and Available Tests: For Reference Materials where property values do not meet the statistical criteria, the summary values have not been provided. For this reason, not all tests will be available for every Reference Material of the same matrix. However, if there are 3 or more data points available, an Assigned Value will be provided with the corresponding QC material.

Sample Sizes: Available sample sizes are shown for reference materials.

Ordering Reference Materials and/or Quality Control Materials, acknowledges you have read and understood our terms and conditions. These can be found at: <https://www.global-proficiency.com/terms-conditions>

Note: When ordering QC materials, please quote both the Product ID AND the process run (PR) number.

QC Material: Infant Formula - Stg 1 (IF) COW Dry-Blend

Matrix: Infant Formula	Product ID Process Run Expiry Date Sample Size	15193-QC PR11619 9 Feb 27 150g	15131-QC PR11288 8 Aug 26 32g
	Arachidonic Acid (mg/100g)	141	
	Bovine LF (Intact) (mg/100g)		102
	Docosahexaenoic Acid (mg/100g)	117	
	Lauric Acid (mg/100g)	1242	
	Lutein (µg/100gm)	90.3	
	Myristic Acid (mg/100g)	568	
	Total A-Linolenic Ac (mg/100g)	513	
	Total Fatty Acid (mg/100g)	26244	

	Total Linoleic Acid (mg/100g)	4624	
	Total Oleic Acid (mg/100g)	10977	
	Trans Fatty Acid (mg/100g)	104	

Reference Material: Infant Formula - Stg 1 (IF) COW Wet-Blend

Matrix: Infant Formula	Product ID	971-C-1
	Expiry Date	30 Apr 26
	Sample Size	150g
	Ascorbic Acid Vit C (mg/kg)	1071
	Biotin (mg/kg)	0.346
	Cholecalciferol Vit D3 (mg/kg)	0.102
	Cyanocobalamin Vit B12 (mg/kg)	0.0219
	dl- α -Tocopherol eqVit E (mg/kg)	170
	Folate (as Folic Acid) (mg/kg)	1.37
	Niacinamide Vit B3 (mg/kg)	38.9
	Pantothenic Acid VitB5 (mg/kg)	42.4
	Phylloquinone Vit K1 (mg/kg)	0.457
	Pyridoxine Vit B6 (mg/kg)	4.05
	Riboflavin Vit B2 (mg/kg)	10.4
	Thiamine Vit B1 (mg/kg)	6.40

QC Material: Infant Formula - Stg 1 (IF) COW Wet-Blend

Matrix: Infant Formula	Product ID	15189-QC
	Process Run	PR12110
	Expiry Date	30 Apr 26
	Sample Size	150g
	Alanine (%)	0.628
	Arginine (%)	0.415
	Ascorbic Acid Vit C (mg/kg)	1073
	Aspartic Acid (%)	1.30
	B-carotene (µg/100gm)	131
	Biotin (mg/kg)	0.345
	Cholecalciferol Vit D3 (mg/kg)	0.101
	Choline (mg/kg)	897
	Cyanocobalamin Vit B12 (mg/kg)	0.0225
	Cystine (%)	0.236
	dl-α-Tocopherol eqVit E(mg/kg)	169
	Folate (as Folic Acid) (mg/kg)	1.40
	Glutamic Acid (%)	2.59
	Glycine (%)	0.256
	Histidine (%)	0.285
	Isoleucine (%)	0.826
	Leucine (%)	1.40
	Lysine (%)	1.17
	Methionine (%)	0.321
	Niacinamide Vit B3 (mg/kg)	38.8
	Pantothenic Acid VitB5 (mg/kg)	42.6
	Phenylalanine (%)	0.524
	Phylloquinone Vit K1 (mg/kg)	0.461

	Proline (%)	1.06
	Pyridoxine Vit B6 (mg/kg)	4.21
	Riboflavin Vit B2 (mg/kg)	10.7
	Serine (%)	0.740
	Thiamine Vit B1 (mg/kg)	6.57
	Threonine (%)	0.844
	Tryptophan (%)	0.236
	Tyrosine (%)	0.506
	Valine (%)	0.835
	Vitamin A (as Retinol) (mg/kg)	6.19

Reference Material: Infant Formula - Stg 2 (FO) COW Wet-Blend

Matrix: Infant Formula	Product ID	972-C-1
	Expiry Date	28 Jan 26
	Sample Size	150g
	Chloride (mg/kg)	5617
	Copper (mg/kg)	4.56
	Iodine (mg/kg)	1.46
	Iron (mg/kg)	87.9
	Magnesium (mg/kg)	626
	Manganese (mg/kg)	3.20
	Potassium (mg/kg)	7596
	Selenium (mg/kg)	0.276
	Sodium (mg/kg)	2112
	Zinc (mg/kg)	45.2

QC Material: Infant Formula - Stg 2 (FO) COW Wet-Blend

Matrix: Infant Formula	Product ID	14503-QC	15192-QC
	Process Run	PR12110	PR12110
	Expiry Date	28 Jan 26	9 Feb 27
	Sample Size	150g	150g
	Adenosine (5-Mono) (mg/100g)		8.46
	Alphalactalbumin (g/100g)		1.73
	Ash (g/100g)		3.07
	Calcium (mg/kg)	7378	
	Chloride (mg/kg)	5619	
	Copper (mg/kg)	4.60	
	Cytidine (5-Mono) (mg/100g)		15.0
	Fat (g/100g)		24.6
	Galactooligosac (GOS) (%)		3.14
	Guanosine (5-Mono) (mg/100g)		3.29
	Inosine (5-Mono) (mg/100g)		4.90
	Iodine (mg/kg)	1.46	
	Iron (mg/kg)	89.5	
	Magnesium (mg/kg)	622	
	Manganese (mg/kg)	3.18	
	Moisture 102oC (%)		2.32
	myo-Inositol (mg/kg)		591
	Nucleotides (Total) (mg/100g)		39.9
	pH 10% solution (pH units)		6.83
	Phosphorus (mg/kg)	4706	
	Potassium (mg/kg)	7671	
	Protein (g/100g)		13.3
	Selenium (mg/kg)	0.285	

	Sodium (mg/kg)	2083	
	Taurine (mg/100g)		43.5
	Total Carnitine (mg/kg)		304
	Total Fructan (FOS) (%)		1.14
	Uridine (5-Mono) (mg/100g)		8.17
	Zinc (mg/kg)	45.9	

QC Material: Lactoferrin - Lactoferrin

Matrix: Lactoferrin	Product ID	15173-QC
	Process Run	PR11288
	Expiry Date	7 Aug 26
	Sample Size	5g
	Lactoferrin Purity (%)	91.8