

Reference Material and Inter-laboratory Quality Control Materials Product Summary

April 2024

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

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

Matrix: Infant Formula	Product ID Process Run Expiry Date Sample Size	13780-QC PR11185 2 Aug 24 150g	13782-QC PR11003 17 Apr 25 150g	15131-QC PR11288 8 Aug 26 32g
	Adenosine (5-Mono) (mg/100g)	4.78		
	Alphalactalbumin (g/100g)	0.9		
	Ash (g/100g)	2.94		
	Bovine LF (Intact) (mg/100g)			102
	Cytidine (5-Mono) (mg/100g)	7.21		
	Docosahexaenoic Acid (mg/100g)		89.5	
	Fat (g/100g)	29.01		
	Free Carnitine (mg/kg)	134		

Galactooligosac (GOS) (%)	2.20		
Guanosine (5-Mono) (mg/100g)	1.43		
Inosine (5-Mono) (mg/100g)	2.78		
Lauric Acid (mg/100g)		1531	
Lutein (µg/100gm)		143	
Myristic Acid (mg/100g)		700	
Nucleotides (Total) (mg/100g)	20.60		
pH 10% solution (pH units)	7.07		
Protein (g/100g)	12.26		
Taurine (mg/100g)	30.05		
Total A-Linolenic Ac (mg/100g)		457	
Total Carnitine (mg/kg)	145		
Total Fatty Acid (mg/100g)		26144	
Total Fructan (FOS) (%)	1.38		
Total Linoleic Acid (mg/100g)		3775	
Total Oleic Acid (mg/100g)		11297	

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

Matrix: Infant Formula	Product ID	899-C-1
	Expiry Date	6 Feb 25
	Sample Size	150g
	Ascorbic Acid Vit C (mg /kg)	920
	B-carotene (µg/100gm)	147.9
	Biotin (mg/kg)	0.35
	Cholecalciferol Vit D3 (mg/kg)	0.109
	Choline (mg/kg)	859
	dl-a-Tocopherol eqVit E (mg/kg)	171
	Folate (as Folic Acid) (mg/kg)	1.385
	Niacinamide Vit B3 (mg /kg)	39
	Pantothenic Acid VitB5 (mg/kg)	46.2
	Phylloquinone Vit K1 (mg/kg)	0.51
	Riboflavin Vit B2 (mg/kg)	9.20
	Thiamine Vit B1 (mg/kg)	5.77
	Vitamin A (as Retinol) (mg/kg)	5.40

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

Matrix: Infant Formula	Product ID	13783-QC	14502-QC
	Process Run	PR11316	PR11200
	Expiry Date	6 Feb 25	16 May 25
	Sample Size	150g	150g
	Ascorbic Acid Vit C (mg /kg)	923	
	Biotin (mg/kg)	0.34	
	Calcium (mg/kg)		4738
	Chloride (mg/kg)		4946
	Cholecalciferol Vit D3 (mg/kg)	0.108	
	Choline (mg/kg)	862	
	Copper (mg/kg)		3.84
	Cyanocobalamin Vit B12 (mg/kg)	0.0247	
	dl-a-Tocopherol eqVit E (mg/kg)	170	
	Folate (as Folic Acid) (mg/kg)	1.402	
	Iodine (mg/kg)		1.29
	Iron (mg/kg)		43.9
	Magnesium (mg/kg)		635
	Manganese (mg/kg)		1.38
	Niacinamide Vit B3 (mg /kg)	38	
	Pantothenic Acid VitB5 (mg/kg)	45.2	
	Phosphorus (mg/kg)		2926
	Phylloquinone Vit K1 (mg/kg)	0.51	
	Potassium (mg/kg)		6723
	Pyridoxine Vit B6 (mg/kg)	4.02	
	Riboflavin Vit B2 (mg/kg)	9.15	
	Selenium (mg/kg)		0.212
	Sodium (mg/kg)		2005

	Thiamine Vit B1 (mg/kg)	5.77	
	Vitamin A (as Retinol) (mg/kg)	5.48	
	Zinc (mg/kg)		48.3

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

Matrix: Infant Formula	Product ID	879-C-2
	Expiry Date	14 Feb 25
	Sample Size	150g
	Ascorbic Acid Vit C (mg /kg)	1142
	B-carotene (µg/100gm)	153.6
	Biotin (mg/kg)	0.50
	Cholecalciferol Vit D3 (mg/kg)	0.110
	Choline (mg/kg)	1264
	Cyanocobalamin Vit B12 (mg/kg)	0.0327
	dl-a-Tocopherol eqVit E (mg/kg)	186
	Folate (as Folic Acid) (mg/kg)	1.267
	Niacinamide Vit B3 (mg /kg)	54
	Pantothenic Acid VitB5 (mg/kg)	44.6
	Phylloquinone Vit K1 (mg/kg)	0.75
	Pyridoxine Vit B6 (mg/kg)	5.06
	Riboflavin Vit B2 (mg/kg)	15.64
	Thiamine Vit B1 (mg/kg)	8.00
	Vitamin A (as Retinol) (mg/kg)	7.07

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

Matrix: Infant Formula	Product ID	13784-QC
	Process Run	PR11316
	Expiry Date	14 Feb 25
	Sample Size	150g
	Ascorbic Acid Vit C (mg /kg)	1144
	B-carotene (µg/100gm)	157.7
	Biotin (mg/kg)	0.50
	Cholecalciferol Vit D3 (mg/kg)	0.108
	Choline (mg/kg)	1261
	Cyanocobalamin Vit B12 (mg/kg)	0.0328
	dl-α-Tocopherol eq Vit E (mg/kg)	184
	Folate (as Folic Acid) (mg/kg)	1.321
	Niacinamide Vit B3 (mg /kg)	54
	Pantothenic Acid Vit B5 (mg/kg)	44.8
	Phylloquinone Vit K1 (mg/kg)	0.76
	Pyridoxine Vit B6 (mg/kg)	5.12
	Riboflavin Vit B2 (mg/kg)	15.52
	Thiamine Vit B1 (mg/kg)	8.11
	Vitamin A (as Retinol) (mg/kg)	7.09

QC Material: Infant Formula - Stg 3 (GU3) COW Dry-Blend

Matrix: Infant Formula	Product ID	13781-QC	13779-QC
	Process Run	PR10972	PR11185
	Expiry Date	4 Jul 24	2 Aug 24
	Sample Size	150g	150g
	Adenosine (5-Mono) (mg/100g)		5.74
	Alphalactalbumin (g/100g)		0.7
	Arachidonic Acid (mg/100g)	85.6	
	Ash (g/100g)		3.42
	Cytidine (5-Mono) (mg/100g)		8.99
	Docosahexaenoic Acid (mg/100g)	64.1	
	Fat (g/100g)		24.71
	Free Carnitine (mg/kg)		179
	Galactooligosac (GOS) (%)		2.12
	Guanosine (5-Mono) (mg/100g)		1.59
	Inosine (5-Mono) (mg/100g)		3.24
	Lauric Acid (mg/100g)	1333	
	Lutein (µg/100gm)	207	
	myo-Inositol (mg/kg)		479.7
	Myristic Acid (mg/100g)	625	
	Nucleotides (Total) (mg/100g)		24.74
	pH 10% solution (pH units)		7.07
	Protein (g/100g)		13.80
	Taurine (mg/100g)		34.39
	Total A-Linolenic Ac (mg/100g)	363	
	Total Fatty Acid (mg/100g)	21706	
	Total Fructan (FOS) (%)		0.94
	Total Linoleic Acid (mg/100g)	3116	

	Total Oleic Acid (mg/100g)	9392	
	Trans Fatty Acid (mg/100g)	102	

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