

Reference Material and Inter-laboratory Quality Control Materials Product Summary

August 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 (PR) number.

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

Matrix: Infant Formula	Product ID	937-C-1
	Expiry Date	9 Feb 27
	Sample Size	150g
	Arachidonic Acid (mg/100g)	139
	Docosahexaenoic Acid (mg/100g)	113
	Myristic Acid (mg/100g)	569
	Total A-Linolenic Ac (mg/100g)	522
	Total Fatty Acid (mg/100g)	26339
	Total Linoleic Acid (mg/100g)	4612
	Total Oleic Acid (mg/100g)	11085
	Trans Fatty Acid (mg/100g)	112

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

Matrix: Infant Formula	Product ID	13782-QC	15191-QC	15193-QC	15131-QC
	Process Run	PR11003	PR11445	PR11619	PR11288
	Expiry Date	17 Apr 25	19 Sep 26	9 Feb 27	8 Aug 26
	Sample Size	150g	150g	150g	32g
	Adenosine (5-Mono) (mg/100g)		4.90		
	Arachidonic Acid (mg/100g)			141	
	Ash (g/100g)		3.06		
	Bovine LF (Intact) (mg/100g)				102
	Cytidine (5-Mono) (mg/100g)		7.78		
	Docosahexaenoic Acid (mg/100g)	89.5		117	
	Fat (g/100g)		28.9		
	Free Carnitine (mg/kg)		114		
	Galactooligosac (GOS) (%)		2.11		
	Guanosine (5-Mono) (mg/100g)		1.47		
	Inosine (5-Mono) (mg/100g)		2.83		
	Lauric Acid (mg/100g)	1531		1242	
	Lutein (µg/100gm)	143		90.3	
	Moisture 102oC (%)		2.21		
	myo-Inositol (mg/kg)		242		
	Myristic Acid (mg/100g)	700		568	
	Nucleotides (Total) (mg/100g)		21.4		
	pH 10% solution (pH units)		7.02		
	Protein (g/100g)		12.3		
	Taurine (mg/100g)		31.6		
	Total A-Linolenic Ac (mg/100g)	457		513	
	Total Carnitine (mg/kg)		151		
	Total Fatty Acid (mg/100g)	26144		26244	

	Total Fructan (FOS) (%)		1.40		
	Total Linoleic Acid (mg/100g)	3775		4624	
	Total Oleic Acid (mg/100g)	11297		10977	
	Trans Fatty Acid (mg/100g)			104	
	Uridine (5-Mono) (mg/100g)		4.38		

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

Matrix:	Product ID	899-C-1
Infant Formula	Expiry Date	6 Feb 25
	Sample Size	150g
	Ascorbic Acid Vit C (mg/kg)	920
	B-carotene (µg/100gm)	148
	Biotin (mg/kg)	0.347
	Cholecalciferol Vit D3 (mg/kg)	0.109
	Choline (mg/kg)	859
	dl-α-Tocopherol eq Vit E (mg/kg)	171
	Folate (as Folic Acid) (mg/kg)	1.39
	Niacinamide Vit B3 (mg/kg)	38.6
	Pantothenic Acid Vit B5 (mg/kg)	46.2
	Phylloquinone Vit K1 (mg/kg)	0.505
	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)	0.342	
	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)	1.40	
	Iodine (mg/kg)		1.29
	Iron (mg/kg)		43.9
	Magnesium (mg/kg)		635
	Manganese (mg/kg)		1.38
	Niacinamide Vit B3 (mg /kg)	37.6	
	Pantothenic Acid VitB5 (mg/kg)	45.2	
	Phosphorus (mg/kg)		2926
	Phylloquinone Vit K1 (mg/kg)	0.514	
	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)	154
	Biotin (mg/kg)	0.505
	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)	1.27
	Niacinamide Vit B3 (mg /kg)	54.1
	Pantothenic Acid VitB5 (mg/kg)	44.6
	Phylloquinone Vit K1 (mg/kg)	0.750
	Pyridoxine Vit B6 (mg/kg)	5.06
	Riboflavin Vit B2 (mg/kg)	15.6
	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)	158
	Biotin (mg/kg)	0.502
	Cholecalciferol Vit D3 (mg/kg)	0.108
	Choline (mg/kg)	1261
	Cyanocobalamin Vit B12 (mg/kg)	0.0328
	dl-α-Tocopherol eqVit E (mg/kg)	184
	Folate (as Folic Acid) (mg/kg)	1.32
	Niacinamide Vit B3 (mg /kg)	53.6
	Pantothenic Acid VitB5 (mg/kg)	44.8
	Phylloquinone Vit K1 (mg/kg)	0.764
	Pyridoxine Vit B6 (mg/kg)	5.12
	Riboflavin Vit B2 (mg/kg)	15.5
	Thiamine Vit B1 (mg/kg)	8.11
	Vitamin A (as Retinol) (mg/kg)	7.09

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