

Reference Material and Inter-laboratory Quality Control Materials Product Summary

March 2018

Version: 1

Assigned Values: Values provided have been generated from an Inter-Laboratory Proficiency Programme (ILPP). 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.

Note: When ordering QC materials, please quote both the Product ID AND the process run

Reference Materials: Infant Formula - Stage 1 Infant Formula

Matrix: Infant Formula	Product ID	145-C-2	169-C-1
	Expiry Date	18 Aug 18	13 Dec 18
	Sample Size(s)	150g	150g
	A-Linolenic Acid (mg/100g)		440
	Arachidonic Acid (mg/100g)		80.3
	Ash (g/100g)		2.89
	Calcium (mg/kg)	5214	
	Chloride (mg/kg)	5327	
	Copper (mg/kg)	3.75	
	Docosahexaenoic Acid (mg/100g)		59.3
	Fat (g/100g)		25.9
	Iodine (mg/kg)	1.22	
	Iron (mg/kg)	56.3	
	Linoleic Acid (mg/100g)		3698
	Magnesium (mg/kg)	564	
	Manganese (mg/kg)	1.78	
	Moisture 102oC (%)		2.08
	Nucleotides (5-Mono) (mg/100g)		28.8

	pH 10% solution (pH units)		6.89
	Phosphorus (mg/kg)	3264	
	Potassium (mg/kg)	6594	
	Selenium (mg/kg)	0.205	
	Sodium (mg/kg)	1881	
	Taurine (mg/100g)		38.3
	Zinc (mg/kg)	49.8	

QC Material: Infant Formula - Stage 1 Infant Formula

Matrix: Infant Formula	Product ID	8219-QC	8223-QC	8225-QC
	Process Run	PR5911	PR6097	PR5984
	Expiry Date	18 Aug 18	12 Aug 18	13 Dec 18
	Sample Size(s)	150g	150g	150g
	Calcium (mg/kg)	5162		
	Chloride (mg/kg)	5330		
	Copper (mg/kg)	3.75		
	Iodine (mg/kg)	1.22		
	Iron (mg/kg)	56.5		
	Magnesium (mg/kg)	566		
	Manganese (mg/kg)	1.76		
	Phosphorus (mg/kg)	3293		
	Potassium (mg/kg)	6550		
	Selenium (mg/kg)	0.207		
	Sodium (mg/kg)	1876		
	Zinc (mg/kg)	49.8		
	Arachidonic Acid (mg/100g)			81.5
	Ash (g/100g)			2.89
	Docosahexaenoic Acid (mg/100g)			59.9
	Fat (g/100g)			25.9
	Linoleic Acid (mg/100g)			3704
	A-Linolenic Acid (mg/100g)			437
	Moisture 102oC (%)			2.11
	Nucleotides (5-Mono) (mg/100g)			28.7
	pH 10% solution (pH units)			6.88
	Protein (g/100g)			13.6
	Taurine (mg/100g)			39.4
	α-Tocopherol eq. Vit E (mg/kg)		169	
	Ascorbic Acid Vit C (mg/kg)		848	
	Biotin (mg/kg)		0.300	
	Cholecalciferol Vit D3 (mg/kg)		0.0820	
	Choline (mg/kg)		841	

	Cyanocobalamin Vit B 12 (mg/kg)		0.0183	
	Folic Acid (mg/kg)		1.34	
	Pantothenic Acid VitB5 (mg/kg)		35.9	
	Phylloquinone Vit K1 (mg/kg)		0.410	
	Pyridoxine Vit B6 (mg/kg)		3.80	
	Retinol eq. Vit A (mg/kg)		5.45	
	Thiamine Vit B1 (mg/kg)		6.68	
	Riboflavin Vit B2 (mg/kg)		7.36	
	Niacinamide Vit B3 (mg/kg)		37.0	

Reference Materials: Infant Formula - Stage 2 Infant Formula

Matrix: Infant Formula	Product ID	113-C-1
	Expiry Date	7 Feb 19
	Sample Size(s)	150g
	A-Linolenic Acid (mg/100g)	417
	Arachidonic Acid (mg/100g)	50.7
	Docosahexaenoic Acid (mg/100g)	74.1
	Linoleic Acid (mg/100g)	3234
	Moisture 102oC (%)	2.05
	pH 10% solution (pH units)	6.93
	Protein (g/100g)	16.6

QC Material: Infant Formula - Stage 2 Infant Formula

Matrix: Infant Formula	Product ID	8226-QC
	Process Run	PR5633
	Expiry Date	7 Feb 19
	Sample Size(s)	150g
	Arachidonic Acid (mg/100g)	51.2
	Ash (g/100g)	3.34
	Docosahexaenoic Acid (mg/100g)	74.1
	Linoleic Acid (mg/100g)	3240
	A-Linolenic Acid (mg/100g)	424
	Moisture 102oC (%)	2.06
	Nucleotides (5-Mono) (mg/100g)	25.6
	Protein (g/100g)	16.7
	Taurine (mg/100g)	37.5

Reference Materials: Infant Formula - Stage 3 Infant Formula

Matrix: Infant Formula	Product ID	114-C-2	147-C-2	170-C-1
	Expiry Date	26 May 18	22 Nov 18	5 Feb 19
	Sample Size(s)	150g	150g	150g
	A-Linolenic Acid (mg/100g)			275
	Arachidonic Acid (mg/100g)			6.37
	Ascorbic Acid Vit C (mg/kg)	1689		
	Ash (g/100g)			4.65
	a-Tocopherol eq. Vit E (mg/kg)	189		
	Calcium (mg/kg)		7074	
	Chloride (mg/kg)		6497	
	Cholecalciferol Vit D3 (mg/kg)	0.113		
	Cyanocobalamin Vit B 12 (mg/kg)	0.0365		
	Docosahexaenoic Acid (mg/100g)			52.2
	Fat (g/100g)			19.8
	Folic Acid (mg/kg)	1.32		
	Iodine (mg/kg)		1.59	
	Iron (mg/kg)		78.1	

Linoleic Acid (mg/100g)			1864
Magnesium (mg/kg)		591	
Manganese (mg/kg)		3.27	
Moisture 102oC (%)			2.44
Niacinamide Vit B3 (mg/kg)	74.9		
Pantothenic Acid VitB5 (mg/kg)	46.9		
pH 10% solution (pH units)			6.63
Phosphorus (mg/kg)		4434	
Phylloquinone Vit K1 (mg/kg)	0.752		
Protein (g/100g)			20.0
Pyridoxine Vit B6 (mg/kg)	4.42		
Retinol eq. Vit A (mg/kg)	8.07		
Riboflavin Vit B2 (mg/kg)	13.8		
Sodium (mg/kg)		2086	
Thiamine Vit B1 (mg/kg)	8.73		
Zinc (mg/kg)		45.4	

QC Material: Infant Formula - Stage 3 Infant Formula

Matrix: Infant Formula	Product ID	8221-QC	8224-QC	8228-QC
	Process Run	PR5494	PR5704	PR5984
	Expiry Date	22 Nov 18	26 May 18	5 Feb 19
	Sample Size(s)	150g	150g	150g
	Calcium (mg/kg)	6990		
	Chloride (mg/kg)	6520		
	Copper (mg/kg)	3.49		
	Iodine (mg/kg)	1.57		
	Iron (mg/kg)	76.9		
	Magnesium (mg/kg)	578		
	Manganese (mg/kg)	3.25		
	Phosphorus (mg/kg)	4355		
	Potassium (mg/kg)	9839		
	Selenium (mg/kg)	0.300		
	Sodium (mg/kg)	2060		
	Zinc (mg/kg)	45.3		
	Arachidonic Acid (mg/100g)			6.03
	Ash (g/100g)			4.64
	Docosahexaenoic Acid (mg/100g)			51.9
	Fat (g/100g)			19.8
	Linoleic Acid (mg/100g)			1871
	A-Linolenic Acid (mg/100g)			273
	Moisture 102oC (%)			2.40
	Nucleotides (5-Mono) (mg/100g)			30.2
	pH 10% solution (pH units)			6.64
	Protein (g/100g)			20.0
	Taurine (mg/100g)			33.3
	a-Tocopherol eq. Vit E (mg/kg)		192	
	Ascorbic Acid Vit C (mg/kg)		1695	
	Biotin (mg/kg)		0.540	
	Cholecalciferol Vit D3 (mg/kg)		0.114	
	Choline (mg/kg)		1260	

	Cyanocobalamin Vit B 12 (mg/kg)		0.0369	
	Folic Acid (mg/kg)		1.31	
	Pantothenic Acid VitB5 (mg/kg)		47.0	
	Phylloquinone Vit K1 (mg/kg)		0.750	
	Pyridoxine Vit B6 (mg/kg)		4.47	
	Retinol eq. Vit A (mg/kg)		8.02	
	Thiamine Vit B1 (mg/kg)		8.60	
	Riboflavin Vit B2 (mg/kg)		13.8	
	Niacinamide Vit B3 (mg/kg)		76.0	