

Reference Material and Inter-laboratory Quality Control Materials Product Summary

October 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	169-C-1
	Expiry Date	13 Dec 18
	Sample Size	150g
	A-Linolenic Acid (mg/100g)	440
	Arachidonic Acid (mg/100g)	80.3
	Ash (g/100g)	2.89
	Docosahexaenoic Acid (mg/100g)	59.3
	Fat (g/100g)	25.9
	Linoleic Acid (mg/100g)	3698
	Moisture 102oC (%)	2.08
	Nucleotides (5-Mono) (mg/100g)	28.8
	pH 10% solution (pH units)	6.89
	Taurine (mg/100g)	38.3

QC Material: Infant Formula - Stage 1 Infant Formula

Matrix: Infant Formula	Product ID	8225-QC	9004-QC
	Process Run	PR5984	PR7062
	Expiry Date	13 Dec 18	16 Sep 19
	Sample Size	150g	150g
	A-Linolenic Acid (mg/100g)	437	
	Arachidonic Acid (mg/100g)	81.5	
	Ash (g/100g)	2.89	
	Calcium (mg/kg)		5756
	Chloride (mg/kg)		5268
	Copper (mg/kg)		3.99
	Docosahexaenoic Acid (mg/100g)	59.9	
	Fat (g/100g)	25.9	
	Iodine (mg/kg)		1.25
	Iron (mg/kg)		56.7
	Linoleic Acid (mg/100g)	3704	
	Magnesium (mg/kg)		592
	Manganese (mg/kg)		1.80
	Moisture 102oC (%)	2.11	
	Nucleotides (5-Mono) (mg/100g)	28.7	
	pH 10% solution (pH units)	6.88	
	Phosphorus (mg/kg)		3653
	Potassium (mg/kg)		6847
	Protein (g/100g)	13.6	
	Selenium (mg/kg)		0.216
	Sodium (mg/kg)		1723
	Taurine (mg/100g)	39.4	
	Zinc (mg/kg)		51.5

Reference Materials: Infant Formula - Stage 2 Infant Formula

Matrix: Infant Formula	Product ID	113-C-1	325-C-1	326-C-1
	Expiry Date	7 Feb 19	15 Sep 19	12 Nov 19
	Sample Size	150g	150g	150g
	A-Linolenic Acid (mg/100g)	417		
	Arachidonic Acid (mg/100g)	50.7		97.8
	Ascorbic Acid Vit C (mg/kg)		916	
	Ash (g/100g)			3.29
	a-Tocopherol eq. Vit E (mg/kg)		154	
	B-carotene (µg/100gm)		131	
	Biotin (mg/kg)		0.283	
	Cholecalciferol Vit D3 (mg/kg)		0.0922	
	Choline (mg/kg)		866	
	Docosahexaenoic Acid (mg/100g)	74.1		77.1
	Fat (g/100g)			23.2
	Folic Acid (mg/kg)		1.48	
	Linoleic Acid (mg/100g)	3234		3137
	Moisture 102oC (%)	2.05		2.29
	Niacinamide Vit B3 (mg/kg)		36.8	
	Nucleotides (5-Mono) (mg/100g)			23.2
	Pantothenic Acid VitB5 (mg/kg)		36.0	
	pH 10% solution (pH units)	6.93		
	Phylloquinone Vit K1 (mg/kg)		0.562	
	Protein (g/100g)	16.6		17.2
	Pyridoxine Vit B6 (mg/kg)		4.04	
	Retinol eq. Vit A (mg/kg)		5.17	
	Riboflavin Vit B2 (mg/kg)		8.91	
	Taurine (mg/100g)			28.3
	Thiamine Vit B1 (mg/kg)		6.32	

QC Material: Infant Formula - Stage 2 Infant Formula

Matrix: Infant Formula	Product ID Process Run Expiry Date Sample Size	8226-QC PR5633 7 Feb 19 150g	9006-QC PR6686 15 Sep 19 150g	9009-QC PR6649 12 Nov 19 150g
	A-Linolenic Acid (mg/100g)	424		344
	Alphalactalbumin (g/100g)			1.25
	Arachidonic Acid (mg/100g)	51.2		97.6
	Ascorbic Acid Vit C (mg/kg)		910	
	Ash (g/100g)	3.34		3.33
	a-Tocopherol eq. Vit E (mg/kg)		155	
	B-carotene (µg/100gm)		120	
	Biotin (mg/kg)		0.290	
	Carnitine (mg/kg)			170
	Cholecalciferol Vit D3 (mg/kg)		0.0960	
	Choline (mg/kg)		865	
	Cyanocobalamin Vit B12 (mg/kg)		0.0226	
	Docosahexaenoic Acid (mg/100g)	74.1		78.1
	Fat (g/100g)			23.2
	Folic Acid (mg/kg)		1.47	
	Linoleic Acid (mg/100g)	3240		3151
	Lutein (µg/100gm)			164
	Moisture 102oC (%)	2.06		2.33
	myo-Inositol (mg/kg)			731
	Niacinamide Vit B3 (mg/kg)		37.0	
	Nucleotides (5-Mono) (mg/100g)	25.6		23.7
	Pantothenic Acid VitB5 (mg/kg)		36.8	
	pH 10% solution (pH units)			7.05
	Phylloquinone Vit K1 (mg/kg)		0.560	
	Protein (g/100g)	16.7		17.4
	Pyridoxine Vit B6 (mg/kg)		4.11	
	Retinol eq. Vit A (mg/kg)		5.61	
	Riboflavin Vit B2 (mg/kg)		8.50	

	Taurine (mg/100g)	37.5		28.1
	Thiamine Vit B1 (mg/kg)		6.32	
	Total Fructan (FOS) (%)			1.44

Reference Materials: Infant Formula - Stage 3 Infant Formula

Matrix: Infant Formula	Product ID	147-C-2	170-C-1
	Expiry Date	22 Nov 18	5 Feb 19
	Sample Size	150g	150g
	A-Linolenic Acid (mg/100g)		275
	Arachidonic Acid (mg/100g)		6.37
	Ash (g/100g)		4.65
	Calcium (mg/kg)	7074	
	Chloride (mg/kg)	6497	
	Docosahexaenoic Acid (mg/100g)		52.2
	Fat (g/100g)		19.8
	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
	pH 10% solution (pH units)		6.63
	Phosphorus (mg/kg)	4434	
	Protein (g/100g)		20.0
	Sodium (mg/kg)	2086	
	Zinc (mg/kg)	45.4	

QC Material: Infant Formula - Stage 3 Infant Formula

Matrix: Infant Formula	Product ID	8221-QC	8228-QC
	Process Run	PR5494	PR5984
	Expiry Date	22 Nov 18	5 Feb 19
	Sample Size	150g	150g
	A-Linolenic Acid (mg/100g)		273
	Arachidonic Acid (mg/100g)		6.03
	Ash (g/100g)		4.64
	Calcium (mg/kg)	6990	
	Chloride (mg/kg)	6520	
	Copper (mg/kg)	3.49	
	Docosahexaenoic Acid (mg/100g)		51.9
	Fat (g/100g)		19.8
	Iodine (mg/kg)	1.57	
	Iron (mg/kg)	76.9	
	Linoleic Acid (mg/100g)		1871
	Magnesium (mg/kg)	578	
	Manganese (mg/kg)	3.25	
	Moisture 102oC (%)		2.40
	Nucleotides (5-Mono) (mg/100g)		30.2
	pH 10% solution (pH units)		6.64
	Phosphorus (mg/kg)	4355	
	Potassium (mg/kg)	9839	
	Protein (g/100g)		20.0
	Selenium (mg/kg)	0.300	
	Sodium (mg/kg)	2060	
	Taurine (mg/100g)		33.3
	Zinc (mg/kg)	45.3	