

## Reference Material and Inter-laboratory Quality Control Materials Product Summary

November 2017

Version: 2

**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

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

**QC Material: Infant Formula - Stage 1 Infant Formula**

Matrix: Infant Formula	Product ID	8219-QC	8225-QC
	Process Run	PR5911	PR5984
	Expiry Date	18 Aug 18	13 Dec 18
	Sample Size(s)	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

**Reference Materials: Infant Formula - Stage 2 Infant Formula**

Matrix: Infant Formula	Product ID	98-C-2	113-C-1
	Expiry Date	9 Mar 18	7 Feb 19
	Sample Size(s)	150g	150g
	A-Linolenic Acid (mg/100g)		417
	Arachidonic Acid (mg/100g)		50.7
	Calcium (mg/kg)	7021	
	Chloride (mg/kg)	5934	
	Copper (mg/kg)	3.76	
	Docosahexaenoic Acid (mg/100g)		74.1
	Iodine (mg/kg)	1.63	
	Iron (mg/kg)	84.9	
	Linoleic Acid (mg/100g)		3234
	Magnesium (mg/kg)	663	
	Manganese (mg/kg)	3.42	
	Moisture 102oC (%)		2.05
	pH 10% solution (pH units)		6.93
	Potassium (mg/kg)	7142	
	Protein (g/100g)		16.6
	Selenium (mg/kg)	0.264	
	Sodium (mg/kg)	2165	

**QC Material: Infant Formula - Stage 2 Infant Formula**

Matrix: Infant Formula	Product ID	7743-QC	8226-QC
	Process Run	PR5494	PR5633
	Expiry Date	9 Mar 18	7 Feb 19
	Sample Size(s)	150g	150g
	Calcium (mg/kg)	6960	
	Chloride (mg/kg)	6000	
	Copper (mg/kg)	3.79	
	Iodine (mg/kg)	1.61	
	Iron (mg/kg)	86.4	
	Magnesium (mg/kg)	634	
	Manganese (mg/kg)	3.49	
	Phosphorus (mg/kg)	4653	
	Potassium (mg/kg)	7065	
	Selenium (mg/kg)	0.260	
	Sodium (mg/kg)	2094	
	Zinc (mg/kg)	46.7	
	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 B12 (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	

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	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	8224-QC	8221-QC	8228-QC
	Process Run	PR5704	PR5494	PR5984
	Expiry Date	26 May 18	22 Nov 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		



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