

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

November 2023

Version: 2

**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.

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

### QC Material: Infant Formula - Stage 1 (IF) Dry Blended COW

Matrix: Infant Formula	Product ID	13780-QC	13782-QC
	Process Run	PR11185	PR11003
	Expiry Date	2 Aug 24	17 Apr 25
	Sample Size	150g	150g
	Adenosine (5-Mono) (mg/100g)	4.78	
	Alphalactalbumin (g/100g)	0.9	
	Ash (g/100g)	2.94	
	Cytidine (5-Mono) (mg/100g)	7.21	
	Docosahexaenoic Acid (mg/100g)		89.48
	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	

	<b>Lauric Acid (mg/100g)</b>		1531.40
	<b>Lutein (µg/100gm)</b>		143
	<b>Myristic Acid (mg/100g)</b>		699.69
	<b>Nucleotides (Total) (mg/100g)</b>	20.60	
	<b>pH 10% solution (pH units)</b>	7.07	
	<b>Protein (g/100g)</b>	12.26	
	<b>Taurine (mg/100g)</b>	30.05	
	<b>Total A-Linolenic Ac (mg/100g)</b>		456.89
	<b>Total Carnitine (mg/kg)</b>	145	
	<b>Total Fatty Acid (mg/100g)</b>		26143.76
	<b>Total Fructan (FOS) (%)</b>	1.38	
	<b>Total Linoleic Acid (mg/100g)</b>		3774.87
	<b>Total Oleic Acid (mg/100g)</b>		11296.76

**QC Material: Infant Formula - Stage 1 (IF) Wet Blended COW**

Matrix: Infant Formula	Product ID	13783-QC	14502-QC
	Process Run	PR11123	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

**QC Material: Infant Formula - Stage 2 (FO) Wet Blended COW**

Matrix: Infant Formula	Product ID	13784-QC
	Process Run	PR11123
	Expiry Date	14 Feb 25
	Sample Size	150g
	Ascorbic Acid Vit C (mg/kg)	1144
	Biotin (mg/kg)	0.50
	Cholecalciferol Vit D3 (mg/kg)	0.108
	Choline (mg/kg)	1261
	Cyanocobalamin Vit B12 (mg/kg)	0.0328
	dl-a-Tocopherol eqVit E(mg/kg)	184
	Folate (as Folic Acid) (mg/kg)	1.321
	Niacinamide Vit B3 (mg/kg)	54
	Pantothenic Acid VitB5 (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 - Stage 3 (GU3) Dry Blended COW**

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)	85.64	
	Ash (g/100g)		3.42
	Cytidine (5-Mono) (mg/100g)		8.99
	Docosahexaenoic Acid (mg/100g)	64.13	
	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)	1332.74	
	Lutein (µg/100gm)	207	
	myo-Inositol (mg/kg)		479.7
	Myristic Acid (mg/100g)	625.09	
	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)	363.29	
	Total Fatty Acid (mg/100g)	21706.03	
	Total Fructan (FOS) (%)		0.94
	Total Linoleic Acid (mg/100g)	3116.34	

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	<b>Total Oleic Acid (mg/100g)</b>	9391.75	
	<b>Trans Fatty Acid (mg/100g)</b>	102.44	