

FAPAS QC MATERIAL DATA SHEET	T14276QC
Matrix	Milk Powder
Weight / Volume of Contents	50 g

Analyte	Assigned Value, X_a	Range for $ z \leq 2$	Units	No. of data points producing X_a
Total Fat	21.7	20.8 - 22.6	g/100g of sample	34
Saturated Fatty Acids	14.0	12.0 - 15.9	g/100g of sample	33
Monounsaturated Fatty Acids	5.15	3.71 - 6.59	g/100g of sample	29
Polyunsaturated Fatty Acids	0.600	0.204 - 0.995	g/100g of sample	29
Total trans Fatty Acids	0.610	0.207 - 1.012	g/100g of sample	22
Butyric Acid (C4:0)	0.775	0.636 - 0.915	g/100g of sample	23
Caproic Acid (Hexanoic Acid C6:0)	0.464	0.279 - 0.650	g/100g of sample	26
Caprylic Acid (Octanoic Acid C8:0)	0.270	0.162 - 0.378	g/100g of sample	27
Capric Acid (Decanoic Acid C10:0)	0.580	0.348 - 0.812	g/100g of sample	27
Lauric Acid (C12:0)	0.692	0.623 - 0.761	g/100g of sample	28
Myristic Acid (C14:0)	2.28	2.05 - 2.51	g/100g of sample	30
Pentadecanoic Acid (C15:0)	0.211	0.165 - 0.257	g/100g of sample	27
Palmitic Acid (C16:0)	6.40	5.76 - 7.04	g/100g of sample	30
Stearic Acid (C18:0)	2.30	2.07 - 2.53	g/100g of sample	30
Oleic Acid (C18:1 n-9 cis)	4.35	3.91 - 4.78	g/100g of sample	26
Linoleic Acid (C18:2 n-6)	0.399	0.359 - 0.439	g/100g of sample	25

This data sheet is applicable until	19 Feb 2025
Recommended Storage on receipt	Ambient
Notes	

- Mix the QC material thoroughly before taking a representative analytical sample
- The assigned value has been derived from the consensus of laboratories taking part in this proficiency test, using a variety of methods. This is not a certified reference value.
- The Range for $|z| \leq 2$ is the concentration range within the limits of ± 2 z-scores. The assigned value and its range have been established from the proficiency test data and are suitable for use by laboratories as a fit-for-purpose quality control measure.
- Stability of the QC material has been established as sufficient for the scope of the proficiency test from previous experience, expert advice and published literature. FAPAS advises that the QC material is analysed within the recommended date. FAPAS QC materials are intended to be used as single-analysis samples.
- Full details on the proficiency test procedure used to characterise this QC material are available in the Protocol, Part 1 - Common Principles, freely available to download from the FAPAS website.
- You may use any method of analysis you wish.