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Fapas® QC MATERIAL DATA SHEET	T21120QC
Matrix	Infant Formula
Weight / Volume of Contents	50g

Analyte	Assigned Value, x_a	Range for |z| ≤2	Units	No. of data points producing x_a
Vitamin A	485	388 - 582	µg/100g	73
Vitamin B12	1.66	0.93 - 2.39	µg/100g	23
Vitamin C	89.1	67.6 - 110.7	mg/100g	79
Vitamin D3	10.6	7.7 - 13.5	µg/100g	58
Vitamin E	13.6	10.9 - 16.4	mg/100g	68
Vitamin K1	48.7	31.4 - 66.1	µg/100g	34

This data sheet is applicable until	18 Jun 2021
Recommended Storage on receipt	-20°C

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 proficiency test, using a variety of methods. This is not a certified reference value.
- The Range for |z| ≤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.
- The specific forms of vitamins are:

  vitamin A as retinol (the sum of cis and trans isomers)
  vitamin D3 as cholecalciferol (molecular weight 384.64)
  vitamin C as the sum of L(+)ascorbic acid and dehydro L(+)ascorbic acid
  vitamin E as sum of d-alpha tocopherol and l-alpha tocopherol
  vitamin K1 as phylloquinone
  vitamin B12 as cyanocobalamin in µg/100g
- You may use any method of analysis you wish.