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FAPAS QC MATERIAL DATA SHEET	T06124QC
Matrix	Milk
Weight / Volume of Contents	70 g

Analyte	Assigned Value, X_a	Range for |z| ≤2	Units	No. of data points producing X_a
PCB 28	2.15	1.20 - 3.09	µg/kg	16
PCB 52	3.40	1.90 - 4.90	µg/kg	15
PCB 101	2.02	1.13 - 2.91	µg/kg	16
PCB 138	5.53	3.10 - 7.96	µg/kg	16
PCB 153	3.10	1.73 - 4.46	µg/kg	16
PCB 180	3.70	2.07 - 5.33	µg/kg	15
Sum of six indicator PCBs lower bound	19.8	11.1 - 28.6	µg/kg	14
Sum of six indicator PCBs upper bound	19.8	11.1 - 28.6	µg/kg	14
PCB 105	1344	753 - 1936	ng/kg	16
PCB 114	6144	3441 - 8848	ng/kg	16
PCB 118	2667	1494 - 3841	ng/kg	16
PCB 123	3266	1829 - 4702	ng/kg	16
PCB 156	3855	2159 - 5550	ng/kg	16
PCB 157	2630	1473 - 3787	ng/kg	16
PCB 167	1991	1115 - 2867	ng/kg	16
PCB 189	5154	2886 - 7422	ng/kg	16
PCB 77	5.17	2.90 - 7.44	ng/kg	15
PCB 81	10.0	5.6 - 14.4	ng/kg	15
PCB 126	7.00	3.92 - 10.08	ng/kg	15
PCB 169	42.5	23.8 - 61.2	ng/kg	16
WHO-PCB-TEQ lower bound	2.76	1.55 - 3.97	ng/kg	15
WHO-PCB-TEQ upper bound	2.76	1.55 - 3.97	ng/kg	15
2,3,7,8-TCDD	0.330	0.185 - 0.475	ng/kg	13
1,2,3,7,8-PeCDD	0.189	0.106 - 0.272	ng/kg	12
1,2,3,4,7,8-HxCDD	0.735	0.412 - 1.058	ng/kg	16
1,2,3,6,7,8-HxCDD	0.577	0.323 - 0.831	ng/kg	15
1,2,3,7,8,9-HxCDD	0.173	0.097 - 0.249	ng/kg	11
1,2,3,4,6,7,8-HpCDD	0.421	0.236 - 0.606	ng/kg	11
OCDD	1.19	0.67 - 1.72	ng/kg	12
2,3,7,8-TCDF	4.07	2.28 - 5.86	ng/kg	16

1,2,3,7,8-PeCDF	0.854	0.478 - 1.230	ng/kg	15
2,3,4,7,8-PeCDF	1.48	0.83 - 2.13	ng/kg	14
1,2,3,4,7,8-HxCDF	0.466	0.261 - 0.671	ng/kg	13
1,2,3,6,7,8-HxCDF	0.538	0.301 - 0.775	ng/kg	15
1,2,3,7,8,9-HxCDF	0.734	0.411 - 1.057	ng/kg	15
2,3,4,6,7,8-HxCDF	0.368	0.206 - 0.530	ng/kg	13
1,2,3,4,6,7,8-HpCDF	0.630	0.353 - 0.907	ng/kg	15
1,2,3,4,7,8,9-HpCDF	0.593	0.332 - 0.854	ng/kg	14
OCDF	2.25	1.26 - 3.24	ng/kg	15
WHO-PCDD/F-TEQ lower bound	1.70	0.95 - 2.45	ng/kg	15
WHO-PCDD/F-TEQ upper bound	1.80	1.01 - 2.59	ng/kg	15
WHO-PCDD/F-PCB-TEQ lower bound	4.74	2.65 - 6.83	ng/kg	14
WHO-PCDD/F-PCB-TEQ upper bound	4.68	2.62 - 6.74	ng/kg	15

This data sheet is applicable until	28 Feb 2027
Recommended Storage on receipt	+4°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 this 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.
- You may use any method of analysis you wish.