



FAPAS QC MATERIAL DATA SHEET	T06130QC
Matrix	Infant Formula
Weight / Volume of Contents	70 g

Analyte	Assigned Value, X_a	Range for $ z \leq 2$	Units	No. of data points producing X_a
PCB 28	0.126	0.071 - 0.181	µg/kg	8
PCB 52	0.930	0.521 - 1.339	µg/kg	9
PCB 101	0.384	0.215 - 0.552	µg/kg	8
PCB 138	0.243	0.136 - 0.350	µg/kg	8
PCB 153	0.615	0.344 - 0.885	µg/kg	10
PCB 180	0.797	0.446 - 1.148	µg/kg	10
Sum of six indicator PCBs lower bound	3.02	1.69 - 4.35	µg/kg	9
Sum of six indicator PCBs upper bound	3.10	1.74 - 4.46	µg/kg	9
PCB 105	1180	661 - 1699	ng/kg	9
PCB 114	540	302 - 778	ng/kg	9
PCB 118	360	202 - 518	ng/kg	9
PCB 123	947	530 - 1363	ng/kg	9
PCB 156	170	95 - 245	ng/kg	9
PCB 157	1500	840 - 2160	ng/kg	9
PCB 167	1255	703 - 1807	ng/kg	9
PCB 189	680	381 - 979	ng/kg	9
PCB 77	1.79	1.00 - 2.58	ng/kg	8
PCB 81	2.73	1.53 - 3.93	ng/kg	8
PCB 126	0.660	0.370 - 0.950	ng/kg	8
PCB 169	22.0	12.3 - 31.6	ng/kg	8
WHO-PCB-TEQ lower bound	0.930	0.521 - 1.339	ng/kg	9
WHO-PCB-TEQ upper bound	0.934	0.523 - 1.345	ng/kg	9
2,3,7,8-TCDD	0.166	0.093 - 0.238	ng/kg	8
1,2,3,7,8-PeCDD	0.0806	0.0451 - 0.1161	ng/kg	8
1,2,3,4,7,8-HxCDD	0.371	0.207 - 0.534	ng/kg	8
1,2,3,6,7,8-HxCDD	0.288	0.161 - 0.415	ng/kg	8
1,2,3,7,8,9-HxCDD	0.0810	0.0453 - 0.1166	ng/kg	8
1,2,3,4,6,7,8-HpCDD	0.145	0.081 - 0.209	ng/kg	7
OCDD	0.585	0.328 - 0.842	ng/kg	8

2,3,7,8-TCDF	2.20	1.23 - 3.17	ng/kg	9
1,2,3,7,8-PeCDF	0.488	0.273 - 0.703	ng/kg	9
2,3,4,7,8-PeCDF	0.755	0.423 - 1.087	ng/kg	9
1,2,3,4,7,8-HxCDF	0.209	0.117 - 0.301	ng/kg	8
1,2,3,6,7,8-HxCDF	0.286	0.160 - 0.412	ng/kg	8
1,2,3,7,8,9-HxCDF	0.387	0.216 - 0.557	ng/kg	8
2,3,4,6,7,8-HxCDF	0.179	0.100 - 0.258	ng/kg	8
1,2,3,4,6,7,8-HpCDF	0.359	0.201 - 0.516	ng/kg	8
1,2,3,4,7,8,9-HpCDF	0.317	0.177 - 0.456	ng/kg	8
OCDF	1.59	0.89 - 2.28	ng/kg	9
WHO-PCDD/F-TEQ lower bound	0.881	0.493 - 1.269	ng/kg	9
WHO-PCDD/F-TEQ upper bound	0.890	0.498 - 1.282	ng/kg	9
WHO-PCDD/F-PCB-TEQ lower bound	1.81	1.01 - 2.60	ng/kg	9
WHO-PCDD/F-PCB-TEQ upper bound	1.82	1.02 - 2.63	ng/kg	9

This data sheet is applicable until	18 Aug 2028
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Recommended Storage on receipt	+4°C
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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.