

**Table S1.** Long-chain polyunsaturated fatty acids at birth according to infant sex.

	<b>Male (n = 8)</b>	<b>Female (n = 13)</b>	<b>p-value</b>
<b>Long-chain polyunsaturated fatty acids</b>			
Linoleic acid (nmol/ml)	1395.6 (1617)	850.8 (566)	0.624
Dihomo- $\gamma$ -linolenic acid (nmol/ml)	137.9 (71.5)	104.9 (38.6)	0.135
Arachidonic acid (nmol/ml)	659.2 (324.8)	516.4 (239.4)	0.181
$\alpha$ -linolenic acid (nmol/ml)	69.0 (141.3)	24.4 (42.9)	0.970
Eicosapentaenoic acid (nmol/ml)	155.1 (260.0)	69.2 (70.0)	0.851
Docosahexaenoic acid (nmol/ml)	268.1 (306.3)	221.9 (91.5)	0.624
<b>Antioxidants</b>			
Catalase activity (U cata/mg protein)	4.4 (1.8)	3.4 (3.0)	0.860
Thiol groups (mM GSH/mg protein)	0.01 (0.0)	0.01 (0.0)	0.697
Reduced glutathione (mg GSH/mg protein)	0.2 (0.2)	0.2 (0.1)	0.595
Antiox-S (arbitrary units)	0.1 (0.6)	-0.1 (1.5)	0.595
<b>Biomarkers of oxidative damage</b>			
Malondialdehyde ( $\mu$ mol/ml)	6.0 (2.8)	4.6 (2.2)	0.145
Total carbonyl proteins (nmol/mg protein)	0.4 (0.3)	0.3 (0.3)	0.268
Oxy-S (arbitrary units)	-0.6 (0.7)	0.03 (1.0)	0.213

Data show medians (IQR). Mann-Whitney U test.

**Table S2.** Increases in anthropometric parameters and growth velocities from birth to end of supplementation.

	<b>MCT-S (n = 12)</b>	<b>ARA:DHA-S (n = 10)</b>	<b>p-value</b>
$\Delta$ Weight (g)	(509.8)	965.0 (491.5)	0.445
$\Delta$ Weight z-score	-1.53 (0.36)	-1.40 (0.44)	0.428
$\Delta$ Length (cm)	(1.7)	6.5 (4.2)	0.547
$\Delta$ Length z-score	-1.43 (4.27)	-1.37 (1.08)	0.420
$\Delta$ Head circumference (cm)	6.1 (2.2)	6.0 (3.7)	0.690
$\Delta$ Head circumference z-score	-0.72 (1.01)	-1.23 (0.63)	0.421
Weight gain (g/kg/day)	4.47)	10.43 (4.19)	0.792
Length gain (cm/day)	0.04)	0.14 (0.10)	0.222
Head circumference gain (cm/day)	0.09 (0.05)	0.11 (0.04)	0.548

Data show medians (IQR). Change ( $\Delta$ ). Mann-Whitney U test.