

Table S4: Spleen fatty acid content as determined by GLC

Common Name	Chemical Formula	VEH / CON	cSiO <sub>2</sub> / CON	cSiO <sub>2</sub> / ↑DHA	cSiO <sub>2</sub> / ↓SF.ω6	cSiO <sub>2</sub> / ↓SF.ω6↑DHA
		(% of total fatty acids)				
Lauric	<b>C12:0</b>	0.11 ± 0.03 <sup>A</sup>	0.10 ± 0.03 <sup>A</sup>	0.19 ± 0.07 <sup>B</sup>	0.04 ± 0.01 <sup>C</sup>	0.11 ± 0.04 <sup>AB</sup>
Myristic	<b>C14:0</b>	1.18 ± 0.31 <sup>A</sup>	1.17 ± 0.17 <sup>A</sup>	1.85 ± 0.52 <sup>A</sup>	0.61 ± 0.13 <sup>B</sup>	1.22 ± 0.29 <sup>A</sup>
Palmitic	<b>C16:0</b>	22.06 ± 2.29 <sup>A</sup>	21.48 ± 1.75 <sup>A</sup>	25.82 ± 1.95 <sup>BC</sup>	19.50 ± 2.89 <sup>A</sup>	23.40 ± 1.98 <sup>C</sup>
Palmitolaidic	<b>C16:1ω7t</b>	0.11 ± 0.03 <sup>A</sup>	0.09 ± 0.01 <sup>A</sup>	0.10 ± 0.02 <sup>A</sup>	0.05 ± 0.01 <sup>B</sup>	0.05 ± 0.02 <sup>B</sup>
Palmitoleic	<b>C16:1ω7c</b>	5.20 ± 2.10 <sup>A</sup>	4.97 ± 1.14 <sup>A</sup>	5.69 ± 2.08 <sup>A</sup>	3.30 ± 1.46 <sup>A</sup>	4.80 ± 2.18 <sup>A</sup>
Stearic	<b>C18:0</b>	7.36 ± 5.00 <sup>A</sup>	6.52 ± 3.01 <sup>A</sup>	7.28 ± 4.02 <sup>A</sup>	8.29 ± 3.95 <sup>A</sup>	7.27 ± 3.27 <sup>A</sup>
Elaidic	<b>C18:1ω9t</b>	0.11 ± 0.01 <sup>A</sup>	0.10 ± 0.03 <sup>A</sup>	0.08 ± 0.03 <sup>AB</sup>	0.04 ± 0.02 <sup>B</sup>	0.10 ± 0.06 <sup>A</sup>
Oleic	<b>C18:1ω9c</b>	32.81 ± 13.13 <sup>A</sup>	38.21 ± 4.84 <sup>A</sup>	26.20 ± 9.55 <sup>A</sup>	39.67 ± 14.74 <sup>A</sup>	37.40 ± 11.72 <sup>A</sup>
Linoleic	<b>C18:2ω6</b>	12.34 ± 2.92 <sup>A</sup>	12.52 ± 1.67 <sup>A</sup>	14.24 ± 2.63 <sup>A</sup>	5.65 ± 0.37 <sup>B</sup>	7.37 ± 0.37 <sup>C</sup>
Arachidic	<b>C20:0</b>	0.03 ± 0.03 <sup>A</sup>	0.02 ± 0.04 <sup>A</sup>	0.02 ± 0.03 <sup>A</sup>	0.03 ± 0.03 <sup>A</sup>	0.03 ± 0.04 <sup>A</sup>
Gamma-linolenic	<b>C18:3ω6</b>	0.01 ± 0.01 <sup>A</sup>	0.01 ± 0.02 <sup>A</sup>	0.01 ± 0.03 <sup>A</sup>	0.01 ± 0.00 <sup>A</sup>	0.01 ± 0.03 <sup>A</sup>
Linolenic	<b>C18:3ω3</b>	0.78 ± 0.13 <sup>A</sup>	0.73 ± 0.11 <sup>A</sup>	0.80 ± 0.14 <sup>A</sup>	0.56 ± 0.12 <sup>AB</sup>	0.33 ± 0.10 <sup>B</sup>
Eicosanoic	<b>C20:1ω9</b>	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Conjugated Linoleic	<b>CLA 9c,11t</b>	0.08 ± 0.09 <sup>A</sup>	0.11 ± 0.07 <sup>A</sup>	0.09 ± 0.09 <sup>A</sup>	0.02 ± 0.04 <sup>A</sup>	0.01 ± 0.03 <sup>A</sup>
Eicosadienoic	<b>C20:2ω6</b>	0.28 ± 0.16 <sup>A</sup>	0.24 ± 0.08 <sup>A</sup>	0.27 ± 0.18 <sup>A</sup>	0.22 ± 0.12 <sup>A</sup>	0.17 ± 0.09 <sup>A</sup>
Eicosatrienoic	<b>C20:3ω9</b>	0.04 ± 0.04 <sup>A</sup>	0.06 ± 0.03 <sup>AB</sup>	0.02 ± 0.03 <sup>A</sup>	0.14 ± 0.06 <sup>B</sup>	0.05 ± 0.03 <sup>AB</sup>
Behenic	<b>C22:0</b>	0.18 ± 0.17 <sup>A</sup>	0.18 ± 0.09 <sup>A</sup>	0.30 ± 0.31 <sup>A</sup>	0.28 ± 0.24 <sup>A</sup>	0.02 ± 0.02 <sup>A</sup>
Dihomo-g-linolenic	<b>C20:3ω6</b>	0.41 ± 0.32 <sup>A</sup>	0.35 ± 0.17 <sup>A</sup>	0.62 ± 0.45 <sup>A</sup>	0.53 ± 0.26 <sup>A</sup>	0.67 ± 0.33 <sup>A</sup>
Arachidonic	<b>C20:4ω6</b>	7.21 ± 6.14 <sup>AB</sup>	4.60 ± 3.75 <sup>A</sup>	2.61 ± 2.19 <sup>AB</sup>	9.54 ± 5.28 <sup>A</sup>	1.88 ± 0.98 <sup>B</sup>
Eicosapentaenoic	<b>C20:5ω3</b>	0.06 ± 0.05 <sup>A</sup>	0.05 ± 0.02 <sup>A</sup>	0.70 ± 0.51 <sup>AB</sup>	0.06 ± 0.04 <sup>A</sup>	1.19 ± 0.64 <sup>B</sup>
Lignoceric	<b>C24:0</b>	0.03 ± 0.05 <sup>A</sup>	0.10 ± 0.08 <sup>AB</sup>	0.09 ± 0.04 <sup>AB</sup>	0.20 ± 0.15 <sup>B</sup>	0.04 ± 0.03 <sup>AB</sup>
Adrenic	<b>C22:4ω6</b>	1.11 ± 0.99 <sup>AB</sup>	0.84 ± 0.32 <sup>A</sup>	0.15 ± 0.14 <sup>B</sup>	1.72 ± 0.91 <sup>A</sup>	0.08 ± 0.06 <sup>B</sup>
Docosapentaenoic ω6	<b>C22:5ω6</b>	0.70 ± 0.58 <sup>A</sup>	0.56 ± 0.19 <sup>A</sup>	0.98 ± 0.87 <sup>A</sup>	1.08 ± 0.77 <sup>A</sup>	0.34 ± 0.38 <sup>A</sup>
Docosapentaenoic ω3	<b>C22:5ω3</b>	0.51 ± 0.42 <sup>A</sup>	0.37 ± 0.16 <sup>A</sup>	0.69 ± 0.54 <sup>A</sup>	0.41 ± 0.19 <sup>A</sup>	0.83 ± 0.46 <sup>A</sup>
Docosahexaenoic	<b>C22:6ω3</b>	1.86 ± 1.61 <sup>A</sup>	1.41 ± 0.44 <sup>A</sup>	6.11 ± 4.38 <sup>AB</sup>	2.72 ± 1.42 <sup>AB</sup>	7.66 ± 4.32 <sup>B</sup>
Total SF		31.44 ± 7.13 <sup>A</sup>	30.01 ± 4.74 <sup>A</sup>	36.21 ± 4.50 <sup>A</sup>	29.27 ± 6.99 <sup>A</sup>	32.49 ± 4.85 <sup>A</sup>
Total MUFA		41.77 ± 14.70 <sup>A</sup>	47.29 ± 4.59 <sup>A</sup>	35.17 ± 11.03 <sup>A</sup>	47.14 ± 15.77 <sup>A</sup>	45.83 ± 12.21 <sup>A</sup>
Total ω-3 PUFA		3.21 ± 2.00 <sup>A</sup>	2.54 ± 0.54 <sup>A</sup>	8.29 ± 5.29 <sup>A</sup>	3.74 ± 1.71 <sup>A</sup>	10.01 ± 5.52 <sup>A</sup>
Total ω-6 PUFA		22.05 ± 5.33 <sup>A</sup>	19.85 ± 1.18 <sup>A</sup>	18.89 ± 1.80 <sup>A</sup>	18.75 ± 6.87 <sup>AB</sup>	10.53 ± 1.78 <sup>B</sup>
EPA+DHA		1.92 ± 1.66 <sup>A</sup>	1.45 ± 0.45 <sup>A</sup>	6.81 ± 4.89 <sup>AB</sup>	2.79 ± 1.45 <sup>AB</sup>	8.86 ± 4.96 <sup>B</sup>

Data presented as mean ± SD. Difference between diets compared by ordinary one-way ANOVA followed by Tukey's multiple comparison. Nonparametric versions of these tests were used when applicable. Unique letters indicate significant differences between groups (p<0.05).