

**Table S7.** Apparent digestibility coefficients (% , mean  $\pm$  standard error, n = 3) of fatty acids in the test ingredients *Nannochloropsis* sp. and *Isochrysis* sp. for rainbow trout diets

Ingredient <sup>b</sup>			P value
Fatty acids <sup>a</sup>	<i>Nannochloropsis</i> sp.	<i>Isochrysis</i> sp.	
Saturated fatty acid fractions			
14:00	77.4 ± 20.5	69.6 ± 0.8	0.72
15:00	73.2 ± 1.4	75.2 ± 3.1	0.62
16:00	54.2 ± 1.4	47.7 ± 3.7	0.22
17:00	ND <sup>c</sup>	ND	NA <sup>d</sup>
18:00	ND	ND	NA
20:00	ND	ND	NA
22:00	ND	ND	NA
24:00:00	ND	ND	NA
Total SFA	55.9 ± 1.2	58.9 ± 2.6	0.41
Monounsaturated fatty acid fractions			
16:1n7	62.0 ± 0.7 [b]	85.3 ± 1.1 [a]	0.01
18:1n9	61.9 ± 3.4 [b]	81.8 ± 0.6 [a]	0.01
18:1n7	62.9 ± 2.0 [b]	78.9 ± 1.5 [a]	0.01
20:1n9	ND	ND	NA
20:1n7	ND	ND	NA
20:1n11	ND	ND	NA
22:1n9	ND	ND	NA
24:1n9	ND	ND	NA
Total MUFA	44.7 ± 5.0 [b]	72.2 ± 6.3 [a]	< 0.01
Omega-6 polyunsaturated fatty acid fractions			
18:2n6	51.4 ± 1.2 [b]	94.8 ± 1.8 [a]	< 0.01
18:3n6	ND	ND	NA
20:2n6	ND	ND	NA
20:3n6	ND	ND	NA
20:4n6 ARA	88.1 ± 2.3	ND	NA
22:4n6	ND	ND	NA
22:5n6	ND	ND	NA
Total n6 PUFA	76.2 ± 0.7 [b]	98.4 ± 1.1 [a]	< 0.01
Omega-3 polyunsaturated fatty acid fractions			
18:3n3 ALA	98.3 ± 0.0 [a]	90.3 ± 0.4 [b]	< 0.01
18:4n3	ND	95.1 ± 0.2	NA
20:3n3	ND	ND	NA
20:4n3	ND	ND	NA
20:5n3 EPA	69.4 ± 0.8 [b]	87.7 ± 2.2 [a]	< 0.01
22:5n3	ND	ND	NA
22:6n3 DHA	ND	91.0 ± 1.4	NA
Total n3 PUFA	63.9 ± 0.7 [b]	92.6 ± 0.4 [a]	< 0.01
Total PUFA	61.8 ± 0.7 [b]	91.7 ± 0.8 [a]	< 0.01
Total n6 LC PUFA	72.0 ± 1.2 [b]	103.9 ± 1.3 [a]	< 0.01
Total n3 LCPUFA	63.2 ± 3.9 [b]	94.4 ± 1.3 [a]	< 0.01

<sup>a</sup> SFA refers to saturated fatty acids (sum of all fatty acids without double bonds); MUFA, monounsaturated fatty acids (sum of all fatty acids with a single bond, where ARA refers to arachidonic acid); PUFA, polyunsaturated fatty acids (sum of all fatty acids with  $\geq 2$  double bonds); n6 PUFA, omega 6 polyunsaturated fatty acids (18:2, 18:3, 20:2, 20:3, 20:4, 22:4, 22:5, where ALA refers  $\alpha$ -linolenic acid, EPA to eicosapentaenoic acid, DPA refers to docosapentaenoic acid, and DHA to docosahexaenoic acid); n6 LCPUFA, omega 6 long chain polyunsaturated fatty acids (20:2, 20:3, 20:4, 22:4, 22:5), n3 PUFA, omega 3 polyunsaturated fatty acids (18:3, 18:4, 20:3, 20:4, 20:5, 22:5, 22:6); and n3 LCPUFA, omega 3 long chain polyunsaturated fatty acids (20:3, 20:4, 20:5, 22:5, 22:6).

<sup>b</sup>Mean values not sharing a common bracketed letter in the same row differ significantly ( $P < 0.05$ ); both letters appearing together means no difference.

<sup>c</sup>Not found in detectable amounts in ingredients or in feces ( $< 0.1\%$  of total fatty acids)

<sup>d</sup>Not applicable