Supplementary Material

Table S1. Summary table for total fatty acid (TFA) and dimethyl acetal (DMA) (mg/ g DM) content and composition (%TFA+DMA) of the liver tissues of lambs.

FA and DMA[1]	Diet[2]				SEM[3]	P-value
	C	O	SD	FD		
TFA+DMA	**80**	75	67	71	3.99	0.174
14:0	0.53	0.46	0.52	0.42	0.050	0.312
16:0	15.8	13.8	14.4	14.2	0.561	0.080
*c*9-16:1	1.17	1.07	1.19	1.31	0.151	0.715
17:0	1.56^{b}	1.68^{b}	1.73^{b}	2.32^{a}	0.195	0.039
18:0	24.7	24.8	23.5	24.0	0.946	0.764
*c*9-18:1	18.33^{a}	11.48^{b}	9.95^{bc}	8.11^{c}	0.730	<0.001
*c*11-18:1	2.07	1.95	1.90	2.50	0.298	0.462
18:2n-6	8.06	7.85	7.40	7.21	0.621	0.740
22:0	0.15	0.07	0.08	0.13	0.038	0.318
20:4n-6	7.88^{a}	5.77^{b}	7.01^{a}	7.27^{a}	0.407	0.007
20:5n-3	0.87^{b}	4.25^{a}	4.14^{a}	4.68^{a}	0.387	<0.001
22:5n-3	2.87^{b}	8.18^{a}	8.95^{a}	9.19^{a}	0.478	<0.001
22:6n-3	2.14^{b}	4.19^{a}	4.08^{a}	2.88^{b}	0.318	<0.001
Partial sums						
TC18[4]	59.9^{a}	54^{b}	52.1^{b}	50.9^{b}	1.28	<0.001
SFA[5]	43.2	41.3	40.8	41.7	1.13	0.480
MUFA[6]	28.3^{a}	21.4^{b}	21.4^{b}	20.0^{b}	1.12	<0.001
cis-MUFA	23.8^{a}	15.7^{b}	14.5^{b}	13.0^{b}	1.06	<0.001
PUFA[7]	26.9^{b}	36^{a}	36^{a}	36.6^{a}	1.83	0.002
n-3 PUFA	6.40^{b}	17.5^{a}	18^{a}	17.7^{a}	0.894	<0.001
n-6 PUFA	18.3	15.8	16.2	16.5	0.88	0.207
EPA + DHA	3.01^{b}	8.45^{a}	8.21^{a}	7.56^{a}	0.573	<0.001

Means within a row with different letters are significantly different ($P < 0.05$). [1]FA and DMA- fatty acids and dimethyl acetals. [2]C, control diet with no EPA sources; O, diet with *Nannochloropsis* sp. oil; SD, diet with spray-dried *Nannochloropsis oceanica* biomass; FD, diet with freeze-dried *Nannochloropsis oceanica* biomass. [3]Standard error of the mean; the value presented corresponds to a pooled sample standard error of the mean. [4]Sum of C18 FA.[5]Sum of saturated fatty acids. [6]Sum of monounsaturated FA. [7]Sum of polyunsaturated FA. In the FA notation (x:n-), '#' represents the number of C atoms, ':' the number of double bonds and 'n-' the location, in its carbon chain, of the double bond which is closest to the methyl end of the molecule. *c* stands for *cis*.