

Table S1. Main fatty acid compositions of EPA-PL

Fatty acid composition (%)	EPA-PL
C16:0	5.23 ± 0.43
C16:1n-9	1.59 ± 0.13
C17:0	0.92 ± 0.06
C18:2n-6	2.60 ± 0.23
C18:3n-6	1.74 ± 0.16
C20:0	1.77 ± 0.14
C20:3	14.92 ± 1.14
C20:4n-6 (AA)	0.30 ± 0.03
C20:5n-3 (EPA)	59.73 ± 3.83
C22:6n-3 (DHA)	1.51 ± 0.11
C23:0	0.45 ± 0.02
∑PUFA	65.88
∑n-3 PUFA	61.24
∑n-6 PUFA	4.64

Table S2. Composition of experimental diets

Ingredient composition (g/kg)	LF	HF	C0.5	SCS	EPA-PL
Casein	200	200	200	200	200
Fructose	-	200	200	200	200
Corn starch	649.5	249.5	246.15	248.8	243.5
Lard	200	200	200	191	182
Corn oil	50	50	50	50	50
Powdered cellulose	50	50	50	50	50
Mineral mix	35	35	35	35	35
Vitamin mix	10	10	10	10	10
DL-Methionine	3	3	3	3	3
Choline bitartrate	2	2	2	2	2
SCS	-	-	0.35	0.7	-
EPA-PL	-	-	12	-	24

a) Low-fat diet (LF); High-fat diet (HF); High-fat diet plus 0.035% SCS and 1.2% EPA-PL (C0.5); High-fat diet plus 0.07% SCS (SCS); High-fat diet plus 2.4% EPA-PL (EPA-PL).

b) – not detected.

Table S3. Sequences of the primers used in quantitative real-time PCR

Gene	Forward primer	Reverse primer
FAS	GTCTGGAAAGCTGAAGGATCTC	TGCCTCTGAACCACTCACAC
ACOX1	GTATAAACTCTTCCCGCTCCTG	CCAGGTAGTAAAAGCCTTCAGC
cPLA2a	CCTTTGAGTTCATTTGGATCCTAA	TGTAGCTGTGCCTAGGGTTTCAT
COX1	GGAGAGAAAGAAATGGCTGC	ACCCGTCATCTCCAGGGTAA
COX2	AGAAGGAAATGGCTGCAGAA	GCTCGGCTTCCAGTATTGAG
F4/80	CCTGATGGTGAGAAACCTGA	CCCCAGGAAACTCCAGATAA
S100A8	ATTCCATGCCGTCTACAGG	CACCAGAATGAGGAACTCCT
S100A9	TCAAAGAGCTGGTGCGAAAA	AACTCCTCGAAGCTCAGCTG
MCP1	AGCTCTCTCTTCCACCA	CTACAGCTTCTTTGGGACACC
β -Actin	CAGGCATTGCTGACAGGATG	TGCTGATCCACATCTGCTGG