

Supplement Table 1.

Plasma fatty acid composition of male and female rat fed LA+ALA diet and LA diet

Group	HM		HF		LM		LF			
	Male		Female		Male		Female			
Diet	LA+ALA Diet				LA Diet					
Fatty Acids	% weight of Total Fatty Acid									
10:0	0.14	± 0.02	0.10	± 0.01	^{b1}	0.10	± 0.01	0.14	± 0.03	
12:0	1.55	± 0.26	1.71	± 0.33		1.81	± 0.36	1.65	± 0.31	
14:0	1.81	± 0.22	2.21	± 0.32	^{a1}	2.12	± 0.28	2.11	± 0.29	
16:0	16.9	± 0.49	17.5	± 0.68		17.4	± 0.59	16.0	± 0.55	^{b2}
18:0	12.6	± 0.45	14.2	± 0.77	^{a2}	12.1	± 0.34	15.1	± 0.61	^{a3}
20:0	0.09	± 0.01	0.09	± 0.00		0.08	± 0.00	0.08	± 0.00	^{b1}
24:0	0.20	± 0.02	0.16	± 0.01	^{b1}	0.16	± 0.01	0.16	± 0.01	
16:1n-7	3.48	± 0.19	3.76	± 0.20	^{a2}	3.74	± 0.17	3.13	± 0.16	^{b2}
18:1n-9	13.3	± 1.54	16.2	± 2.13	^{a2}	15.5	± 1.24	16.3	± 1.67	
18:1n-7	3.12	± 0.16	2.51	± 0.14	^{b3}	3.69	± 0.18	2.66	± 0.15	^{b3}
20:1n-9	0.17	± 0.01	0.16	± 0.01		0.22	± 0.01	0.19	± 0.01	
24:1n-9	0.19	± 0.02	0.12	± 0.01	^{b2}	0.15	± 0.01	0.13	± 0.01	
18:2n-6	12.4	± 0.41	11.9	± 0.37	^{b2}	9.71	± 0.33	9.59	± 0.42	
18:3n-6	0.18	± 0.01	0.21	± 0.01	^{a3}	0.18	± 0.01	0.22	± 0.02	^{a2}
20:2n-6	0.15	± 0.01	0.14	± 0.02		0.13	± 0.01	0.11	± 0.01	^{b1}
20:3n-6	1.00	± 0.04	0.69	± 0.03	^{b3}	0.76	± 0.05	0.39	± 0.02	^{b3}
20:4n-6	21.9	± 1.12	17.2	± 1.17	^{b3}	24.1	± 1.06	22.8	± 1.10	
22:4n-6	0.20	± 0.01	0.21	± 0.02		0.55	± 0.04	0.60	± 0.03	
22:5n-6	0.16	± 0.01	0.19	± 0.01	^{a2}	2.73	± 0.06	4.36	± 0.15	^{a3}
18:3n-3	0.58	± 0.05	0.71	± 0.05	^{a2}	0.07	± 0.02	0.07	± 0.02	
20:5n-3	0.71	± 0.04	0.78	± 0.06		0.02	± 0.00	0.02	± 0.01	
22:5n-3	0.41	± 0.01	0.41	± 0.01		0.04	± 0.00	0.03	± 0.00	^{b1}
22:6n-3	4.52	± 0.14	5.18	± 0.29	^{a2}	0.37	± 0.01	0.54	± 0.03	^{a3}
20:3n-9	0.24	± 0.01	0.14	± 0.01	^{b3}	0.42	± 0.02	0.23	± 0.01	^{b3}
TFA (mg/mL)	3.54	± 0.13	3.69	± 0.19		4.47	± 0.24	3.93	± 0.24	
Summary										
Σ Saturates	33.3	± 1.05	36.0	± 1.41	^{a2}	33.9	± 1.32	35.3	± 1.28	^{a2}
Σ MUFA	20.3	± 1.62	22.7	± 2.22	^{a1}	23.3	± 1.28	22.4	± 1.74	
Σ n-6 PUFA	36.5	± 1.11	31.0	± 1.18	^{b3}	38.7	± 1.05	38.5	± 1.06	
Σ n-3 PUFA	6.27	± 0.12	7.13	± 0.29	^{a2}	0.55	± 0.03	0.72	± 0.03	^{a3}
n-6/n-3 PUFA	5.82	± 0.14	4.35	± 0.06	^{b3}	71.6	± 3.00	53.8	± 2.01	^{b3}
n-3%/HUFA	19.5	± 0.60	25.9	± 0.56	^{a3}	1.49	± 0.04	2.07	± 0.05	^{a3}
AA/DHA	4.84	± 0.18	3.31	± 0.10	^{b3}	64.9	± 2.4	42.4	± 1.6	^{b3}

Data were expressed in Mean ± SEM (n=6 with 8 measurements per animal); Significant difference was tested for genders, but not for diets; a-female greater; b-female lower; paired *t-test* with $P < 0.05(1), 0.01(2), 0.001(3)$.