

Table 1 Fatty acid composition of MLM structured lipid (%)

Fatty acids (%)	MLM Structured lipid
C8:0	43.2
C16:0	3.76
C18:0	0.56
C18:1	16.49
C18:2	35.10
C18:3	0.368

Table 2 Effect of MLM structured lipids supplementation on serum lipid and inflammation parameters

	Control	HFD	SLs-L	SLs-M	SLs-H
Plasma TC (mmol/L)	2.35 ± 0.13a	24.6 ± 3.34b	23.25 ± 4.29b	24.05 ± 2.34b	21.48 ± 1.93b
Plasma TG (mmol/L)	0.43 ± 0.11b	1.03 ± 0.11a	0.57 ± 0.11b	0.50 ± 0.10b	0.50 ± 0.1
Plasma LDL-C (mmol/L)	0.33 ± 0.05c	15.23 ± 1.70a	15.13 ± 1.55a	14.2 ± 1.11ab	12.73 ± 0.81b
Plasma HDL-C (mmol/L)	2.43 ± 0.25a	1.67 ± 0.06c	1.77 ± 0.21c	1.93 ± 0.12bc	2.20 ± 0.30ab
Liver TG (mg/g)	27.01 ± 1.34d	61.70 ± 2.60a	63.91 ± 1.70a	57.23 ± 1.36b	49.70 ± 1.52c
Liver TC (mg/g)	0.78 ± 0.03c	1.99 ± 0.07a	1.95 ± 0.03a	1.65 ± 0.11b	1.59 ± 0.08b
IL-6 (pg/ml)	22.24 ± 1.73a	20.81 ± 1.78a	17.58 ± 0.37b	17.34 ± 0.38b	16.20 ± 0.94b
TNF-α(pg/ml)	145.91 ± 2.51bc	200.76 ± 12.05a	155.55 ± 4.97b	144.28 ± 4.91bc	134.78 ± 13.02c
VCAM-1 (ng/ml)	530.0 ± 7.76ab	527.16 ± 12.47ab	513.25 ± 34.89ab	482.87 ± 38.15b	558.29 ± 36.35a
MCP-1 (pg/ml)	125.84 ± 9.15a	130.17 ± 7.25a	104.78 ± 2.31b	114.48 ± 12.92ab	85.69 ± 9.35c