

Table S1 ^1H Chemical shift assignment of the metabolites in serum from hamsters

Keys	Metabolites	Moieties	$\delta^1\text{H}$ (ppm) and multiplicity ^a
1	Cholesterol	0.84(m)	$\text{CH}_3(\text{C}26 \text{ and } \text{C}27)$
2	Lipids (mainly HDL)	0.86 (t)	$-\text{CH}_3 (\text{CH}_2)_n$
3	Lipids (mainly VLDL)	0.88 (t)	$\text{CH}_3\text{CH}_2\text{CH}_2\text{C}=$
4	Lipids(triglycerides and fatty acids)	1.27(m) 1.57(m) 2.01(m) 2.24(m) 2.74(m)	$\text{CH}_3(\text{CH}_2)_n$ $\text{CH}_2\text{CH}_2\text{CO}$ $\text{CH}_2\text{-C=C}$ $\text{CH}_2\text{-C=O}$ $=\text{C}-\text{CH}_2\text{-C=}$
5	Unsaturated lipids	5.30 (m)	$-\text{CH}=\text{CH}-$
6	Isoleucine	1.00(d) 0.93(t) 3.65(dd)	γCH_3 δCH_3 αCH
7	Leucine	0.95(d) 0.96(d) 1.71(m) 3.72(dd)	αCH βCH_2 δCH_3 $\delta'\text{CH}_3$
8	Valine	0.98(d) 1.03(d) 2.26(m) 3.60(d)	γCH_3 γCH_3 βCH αCH
9	3-Hydroxybutyrate	1.19(d) 2.30(dd) 2.40(dd) 4.15(m)	γCH_3 αCH αCH βCH_2
10	Lactate	1.32(d) 4.11(q)	βCH_3 αCH
11	Alanine	1.47(d)	βCH_3

		3.76(q)	α CH
12	Acetate	1.91(s)	β CH ₃
13	Methionine	2.13 (s)	δ CH ₂
		2.16(t)	β CH ₂
		2.64(t)	γ CH ₂
		3.87(m)	α CH
14	Acetoacetate	2.27(s)	CH ₃
		3.43(s)	CH ₂
15	Acetone	2.22(s)	CH ₃
16	Glutamine	2.13(m)	β CH ₂
		2.44(m)	γ CH ₂
		3.78(t)	α CH
17	Citrate	2.52(d)	half CH ₂
		2.68(d)	half CH ₂
18	Aspartate	2.66(dd)	half β -CH ₂
		2.80(dd)	half β -CH ₂
		3.89(dd)	α CH
19	Dimethylglycine	2.91(s)	N-CH ₃
20	Creatine	3.03(s)	N-CH ₃
		3.93(s)	CH ₂
21	Choline	3.20 (s)	N-(CH ₃) ₃
22	TMAO	3.26(s)	CH ₃
23	Myo-inositol	3.33(t)	5-CH
		3.53(dd)	1,3-CH
		3.62(t)	4,6-CH
		4.06(t)	2-CH
24	Scyllo-inositol	3.35(s)	CHOH
25	β -Glucose	3.90(dd)	half CH ₂ -C6
26	α -Glucose	5.23(d)	1-CH
27	Glycine	3.55(s)	CH ₂
28	Threonine	1.32(d)	γ CH ₃
		3.60(d)	α CH

		4.23(m)	βCH_2
29	Glucose/amino acids resonances	3.35-3.95	ring protons/ $\alpha\text{-CH}$
30	Urea	5.77(brs)	NH_2
31	Fumaric acid	6.52(s)	CH
32	Tyrosine	6.88(d) 7.18(d)	3or5 CH 2or6 CH
33	Histidine	7.03(s) 7.74(s)	4-CH 2-CH
34	Formate	8.45(s)	CH
35	Phenylalanine	7.31(m) 7.35(m) 7.40(m)	2,6-CH 4-CH 3,5-CH

^a keys for multiplicity in parenthesis: s, singlet; d, doublet; t, triplet; q, quartet; m, multiplet; dd, doublet of doublet. TMAO: trimethylamine N-oxide.