Supplemental Table S1. Metabolites identified through proton nuclear magnetic resonance (^{1}H NMR) spectra, related signal multiplicity, and proton assignment

Metabolite	Multiplicity and assignment
Isoleucine	1.025 ppm (d. -CH_2)
Valine	1.050 ppm (d. -CH_3)
Ethanol	1.190 ppm (t. -CH_3)
Lactate	1.340 ppm (d. -CH_3)
Alanine	1.490 ppm (d. -CH_3)
Butyrate	1.550 ppm (m. -CH_2)
Acetate	1.930 ppm (s. -CH_3)
N-acethylcarbohydrates	2.070 ppm (m. -CH_3)
Acetone	2.243 ppm (s. -CH_3)
3-hydroxybutyrate	2.326 ppm
Glutamate	2.356 ppm (m. -CH_2)
Succinate	2.415 ppm (s. -CH_2)
2-oxoglutarate	3.010 ppm (m. -CH_2)
Carnitine	2.489 ppm (s. -CH_2)
O-acetyl carnitine	2.503 ppm (s. -X) ?
Citrate	2.550 ppm (d. -CH_2)
sarcosine+dimethylamine	2.736 ppm
N,N-Dimethylglycine	2.947 ppm (s. -$(CH_3)_2$)
Creatine+Phosphocreatine+Creatinine	3.050 ppm
Lecithin	3.133 ppm (s. -CH_3)
Dimethylsulfone	3.163 ppm (s. -$(CH_3)_2$)
Choline	3.208 ppm (s. -CH_3)
glycerophosphocholine	3.234 ppm (s. -CH_2)
Methanol	3.370 ppm (s. -CH_3)
Glucose	3.402 ppm (m. CH_2)
Unknown 1	4.280 ppm
Unknown 2	4.338 ppm (O-CH_2)
Lactose total	4.470 ppm (m. -CH)
Galactose	5.281 ppm (d. -CH)
Galactose 1-phosphate	5.366 ppm (m. -CH)
Cis-aconitate	5.740 ppm (s. -CH)
Cytidine	6.082 ppm (d. -CH)
Unknown aldehyde 1	6.135 ppm (=CH_2)
Unknown aldehyde 2	6.148 ppm (=CH_2)
Orotate	6.208 ppm (s. -CH)
Fumarate	6.529 ppm (s. -CH)
Unknown phenyl 1	7.37 ppm (m. -X)
Hippurate	7.570 ppm (t. -CH_2)
Riboflavin	7.976 ppm (s. -CH)
Formate	8.470 ppm (s. -CH)