

**Supplemental Table 1 Qualitative and quantitative analysis of plasma metabolites profiling of the CON, INU and MCC groups**

NO.	Metabolites	Concentration ( $\mu\text{g/ml}$ )			Retention time (min)	KEGG	HMDB
		CON	INU	MCC			
1	Lactate	406.37 $\pm$ 36.95	638.361 $\pm$ 19.60	537.85 $\pm$ 65.90	4.95	C00186	HMDB00190
2	Alanine	70.08 $\pm$ 12.60	50.61 $\pm$ 3.04	48.79 $\pm$ 2.62	5.76	C01401	METPA0179
3	Glycine	6.00 $\pm$ 0.98	13.86 $\pm$ 6.74	15.84 $\pm$ 3.37	6.21	C00037	HMDB00123
4	Glycolic acid	265.96 $\pm$ 108.116	150.42 $\pm$ 7.28	207.96 $\pm$ 9.66	6.61	C00160	HMDB00115
5	Valine	69.4 $\pm$ 55.64	65.83 $\pm$ 4.84	53.17 $\pm$ 1.95	8.26	C00183	HMDB00883
6	Urea	221.54 $\pm$ 90.52	404.13 $\pm$ 57.55	344.59 $\pm$ 94.73	9.35	C00086	HMDB00294
7	Phosphoric acid	1004.28 $\pm$ 152.19	808.37 $\pm$ 73.68	1037.41 $\pm$ 97.48	9.78	C00009	HMDB02142
8	Isoleucine	8.45 $\pm$ 0.94	34.45 $\pm$ 5.19	30.96 $\pm$ 1.97	10.16	C16434	HMDB33923
9	Proline	46.63 $\pm$ 2.36	7.10 $\pm$ 0.88	6.50 $\pm$ 0.74	10.23	C00148	HMDB00162
10	Succinic acid	8.27 $\pm$ 0.78	7.31 $\pm$ 0.69	6.50 $\pm$ 1.06	10.78	C00042	HMDB00254
11	Glyceric acid	6.74 $\pm$ 1.29	8.28 $\pm$ 0.85	7.60 $\pm$ 0.67	11.13	-	HMDB00139
12	Methylmalonic acid	13.89 $\pm$ 5.59	4.76 $\pm$ 0.54	8.25 $\pm$ 1.44	11.67	C02170	HMDB00202
13	Serine	35.68 $\pm$ 4.90	45.08 $\pm$ 4.20	41.19 $\pm$ 1.98	11.86	C00065	HMDB00187
14	Threonine	40.95 $\pm$ 7.88	47.89 $\pm$ 8.95	63.42 $\pm$ 3.12	12.46	C00188	HMDB00167
15	Aminomalonic acid	89.79 $\pm$ 6.44	121.81 $\pm$ 12.60	131.05 $\pm$ 6.30	14.62	C00872	HMDB01147

16	Leucine	14.07±3.88	35.70±2.28	31.07±7.02	14.77	C00123	HMDB00687
17	Malic acid	7.06±0.64	4.42±1.10	2.28±0.40	15.13	C00711	HMDB00744
18	Adipic acid	3.79±1.21	6.03±1.64	9.57±0.59	15.61	C06104	HMDB00448
19	5-oxoproline	59.55±18.72	48.45±7.77	96.50±5.70	15.88	C01879	HMDB00267
20	Hydroxyproline	57.41±12.87	39.29±9.21	5.35±0.87	15.93	C001157	HMDB00725
21	5-methoxyindole-3-acetic acid (5-MIAA)	23.67±6.71	42.92±7.06	64.65±3.62	16.23	-	HMDB04096 -
22	Threonic acid	22.83±7.38	23.58±4.16	22.74±2.03	16.35	C05283	HMDB11738
23	Cysteine	26.93±1.54	6.30±1.75	6.97±1.22	16.78	C00791	METPA0075
24	Creatinine	n.d	3.31±0.69	7.96±0.34	16.73	C00736	HMDB00562
25	Phenylalanine	52.42±8.00	25.46±5.38	25.39±1.76	18.25	C00079	HMDB00159
26	Dodecanoic acid	7.93±3.51	3.87±0.63	11.71±4.47	18.95	C02679	HMDB00638
27	Glycerophosphoric acid	36.87±5.43	33.18±5.90	33.29±3.39	21.26	C00093	HMDB00126
28	N-acetyl aspartate	17.72±4.27	18.64±1.41	19.51±2.88	21.76	C00365	HMDB01409
29	Azelaic acid	27.07±6.17	8.43±2.45	28.36±5.46	22.06	C08261	HMDB00784
30	Ornithine	6.12±0.90	n.d	n.d	22.41	C00077	HMDB00214
31	Citric acid	83.29±10.77	69.74±5.71	75.74±4.86	22.56	C00158	HMDB00094

32	Galactofuranose	142.0±85.03	91.87±18.83	54.27±21.21	23.01	-	HMDB07704
33	Deoxy glucose	61.35±19.27	34.36±1.77	58.60±10.07	23.18	-	HMDB01514 -
34	Myristic acid	17.15±4.49	18.18±5.00	33.85±1.42	23.23	C06424	HMDB00806
35	Fructose	7.15±1.17	7.78±0.98	8.18±1.60	23.47	C02336	HMDB00660
36	Glucose	1593.54±52.01	1607.30±55.88	1778.18±37.28	23.70+24.03	C00031	HMDB00122
37	Galactose	391.73±17.11	429.78±23.32	463.94±12.95	24.25	C00984	HMDB00143
38	Erythrose	15.19±4.05	46.32±6.11	45.39±5.70	24.65	C01301	HMDB02649 -
39	Myoinositol	857.90±68.88	956.83±104.85	1018.10±110.14	24.98+27.48	-	HMDB38067
40	Pentadecanoic acid	30.69±8.93	26.71±6.10	20.14±3.01	25.23	C16537	HMDB00826
41	Turanose	5.96±1.27	3.51±1.82	2.78±0.97	25.28	C19636	HMDB11740
42	Glucopyranose	462.67±82.67	319.06±56.28	406.22±42.49	25.80	C07257	HMDB14365
43	Hypogeic acid	13.48±0.41	10.46±4.86	11.46±2.97	26.60	-	HMDB40326
44	Palmitic acid	195.77±55.33	116.95±4.52	115.77±3.94	27.13	C00249	HMDB00220
45	Heptadecanoic acid	37.96±11.81	5.94±0.43	11.64±5.39	28.93	-	HMDB02259
46	Linoleic acid	75.75±10.38	59.98±3.69	41.46±9.15	29.06	-	HMDB38601
47	Octadecanoic acid	138.74±85.02	2.38±0.34	3.34±0.14	30.22	C01530	HMDB00827
48	Oleic acid	293.65±38.42	217.76±12.97	167.18±31.75	30.76	C00712	HMDB00207

49	Arachidonic acid	34.04±8.21	67.57±21.41	52.52±16.29	32.67	C00219	HMDB01043
50	Diethylhexyl adipate	8.57±2.48	5.48±2.24	2.98±0.72	33.11	C14240	HMDB40270
51	Arachidic acid	5.36±2.25	4.13±1.79	7.60±2.71	33.91	C06425	HMDB02212
52	Cholesterol	383.51±44.53	302.65±23.56	306.06±12.48	43.52	C00187	HMDB00067

data are presented as mean ± SD.