

Supplementary Material

Table S4: Different serum metabolite compounds between NG and NFSM groups.

Retention	Metabolite compounds	Mass	Ionization	HMDB	PubChem
6.58	Ursocholic acid	408.2883	Esi+	HMDB0000917	122340
5.038	Tauro-b-muricholic acid	515.2919	Esi+	HMDB0000932	21124703
0.83	3-(Carboxymethylamino) propanoic acid	147.0525	Esi+	HMDB0033550	281622
0.799	Caffeoyl aspartic acid	295.0688	Esi+	HMDB0029294	2489136
8.671499	LysoPE(0:0/18:0)	481.315	Esi+	HMDB0011129	53480667
7.929	LysoPE(0:0/16:0)	453.2853	Esi+	HMDB0011473	53480922
8.2275	LysoPE(18:1(11Z)/0:0)	479.3013	Esi+	HMDB0011505	53480949
8.191	LysoPE(20:2(11Z,14Z)/0:0)	505.3172	Esi+	HMDB0011513	52925140
9.9655	LysoPE(20:0/0:0)	509.3467	Esi+	HMDB0011511	52925131
8	LysoPE(22:4(7Z,10Z,13Z,16Z)/0:0)	529.3174	Esi+	HMDB0011523	52925133
8.988501	LysoPE(20:1(11Z)/0:0)	507.3319	Esi+	HMDB0011512	52925139
8.063	LysoPE(24:6(6Z,9Z,12Z,15Z,18Z,21Z)/0:0)	553.3167	Esi+	HMDB0011529	53480958
8.741	PE(22:2(13Z,16Z)/16:1(9Z))	769.5593	Esi+	HMDB0009551	52924779
4.405333	PG(18:3(9Z,12Z,15Z)/18:3(9Z,12Z,15Z))	766.48	Esi+	HMDB0010682	52927243
17.402	PC(P-16:0/18:3(9Z,12Z,15Z))	740.559	Esi+	HMDB0011213	52923894
17.414	PC(P-18:1(9Z)/18:4(6Z,9Z,12Z,15Z))	764.5614	Esi+	HMDB0011313	53480809
8.741	PE(22:2(13Z,16Z)/14:0)	769.5593	Esi+	HMDB0009547	52924774
7.63	LysoPE(16:1(9Z)/0:0)	451.2699	Esi+	HMDB0011504	52925129
8.67	PS(18:0/18:0)	791.5648	Esi+	HMDB0012378	9547096
5.208	20-Hydroxy-PGF2a	370.2358	Esi+	HMDB0004049	53477777
13.3955	Rutamarin	356.1622	Esi+	HMDB0030666	26948
11.432	Cycrimine	287.2257	Esi+	HMDB0015077	2911
9.22025	Indole	459.388	Esi+	HMDB0000738	798
0.872	Benzenepropanenitrile	131.0737	Esi+	HMDB0034236	12581
6.197	Docosanamide	339.3499	Esi+	HMDB0000583	76468
1.53	L-ornithine	132.161	Esi+	HMDB0000214	6262
1.0875	N-Acryloylglycine	129.0425	Esi+	HMDB0001843	100321
0.821	D-Alanine	89.0479	Esi+	HMDB0001310	71080
8.724	Histamine	111.1451	Esi+	HMDB0000870	774
5.721	9-Hydroxyrisperidone	426.208	Esi+	HMDB0015396	115237
8.799	2-HETE	320.2338	Esi+	HMDB0006111	5312983
5.32	L-tryptophan	204.2132	Esi+	HMDB0000929	6305
5.217	Aspartic acid	133.0375	Esi+	HMDB0000191	5960
1.73	L-serine	105.0532	Esi+	HMDB0000187	5951

Table S5: Different serum metabolite compounds between NG and FSM4 groups

Retention	Metabolite compounds	Mass	Ionization	HMDB	PubChem
6.58	Ursocholic acid	408.2883	Esi+	HMDB0000917	122340
1.08	L-Glyceric acid	106.0266	Esi+	HMDB0006372	6326776
5.038	Tauro-b-muricholic acid	515.2919	Esi+	HMDB0000932	21124703
0.958	Maleic acid	116.0105	Esi+	HMDB0000176	444972
8.671499	Caffeoyl aspartic acid	481.315	Esi+	HMDB0029294	24891369
8.671499	LysoPE(0:0/18:0)	481.315	Esi+	HMDB0011129	53480667
7.929	LysoPE(0:0/16:0)	453.2853	Esi+	HMDB0011473	53480922
8.2275	LysoPE(18:1(11Z)/0:0)	479.3013	Esi+	HMDB0011505	53480949
8.1915	LysoPE(20:2(11Z,14Z)/0:0)	505.3172	Esi+	HMDB0011513	52925140
9.9655	LysoPE(20:0/0:0)	509.3467	Esi+	HMDB0011511	52925131
8.0805	LysoPE(22:4(7Z,10Z,13Z,16Z)/0:0)	529.3166	Esi+	HMDB0011523	52925133
8.988501	LysoPE(20:1(11Z)/0:0)	507.3319	Esi+	HMDB0011512	52925139
8.741	PE(22:2(13Z,16Z)/16:1(9Z))	769.5593	Esi+	HMDB0009551	52924779
4.405333	PG(18:3(9Z,12Z,15Z)/18:3(9Z,12Z,15Z))	766.48	Esi+	HMDB0010682	52927243
17.402	PC(P-16:0/18:3(9Z,12Z,15Z))	740.559	Esi+	HMDB0011213	52923894
17.414	PC(P-18:1(9Z)/18:4(6Z,9Z,12Z,15Z))	764.5614	Esi+	HMDB0011313	53480809
8.67	PS(18:0/18:0)	791.5648	Esi+	HMDB0012378	9547096
8.934	PI(20:0/16:0)	866.5854	Esi+	HMDB0009866	52928286
6.165	PE(24:1(15Z)/14:1(9Z))	771.5746	Esi+	HMDB0009746	53480018
17.455	PE(20:2(11Z,14Z)/14:0)	715.5125	Esi+	HMDB0009283	52924574
6.937	6-Gingerol	294.1831	Esi+	HMDB0005783	3473
17.44	Lactosylceramide (d18:1/12:0)	805.5561	Esi+	HMDB0004866	52931260
9.22025	Indole	459.388	Esi+	HMDB0000738	798
6.197	Docosanamide	339.3499	Esi+	HMDB0000583	76468
1.53	L-ornithine	132.161	Esi+	HMDB0000214	6262
1.0875	N-Acryloylglycine	129.0425	Esi+	HMDB0001843	100321
8.724	Histamine	111.1451	Esi+	HMDB0000870	774
8.799	12-HETE	320.2338	Esi+	HMDB0006111	5312983
0.855	Cytidine	243.0849	Esi+	HMDB0000089	6253
5.32	L-tryptophan	204.2132	Esi+	HMDB0000929	6305
5.217	Aspartic acid	133.0375	Esi+	HMDB0000191	5960
1.73	L-serine	105.0532	Esi+	HMDB0000187	5951