PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	PLATFORM	COMP ID	KEGG	HMDB	Fold of Change – ANOVA Contrasts: 12 wks / 6 wks			LDLR -/- / WT		APOE -/- / WT		Two-Way ANOVA		
								WT	LDLR -/-	APOE -/-	6 wks	12 wks	6 wks	12 wks	Genotype Main Effect	Time Main Effect	Genotype:Time Interaction
1	Amino acid	Glycine, serine and threonine metabolism	glycine	GC/MS	11777	C00037	HMDB00123	1.09	1.12	0.97	1.09	1.12	1.17	1.04			
8			serine	GC/MS	1648	C00065	HMDB03406	1.10	1.07	1.02	1.06	1.03	1.08	1.00			
12			homoserine	GC/MS	23642	C00263,C02926	HMDB00719	0.90	0.99	0.95	1.08	1.19	1.07	1.13			
17			threonine	LC/MS pos	1284	C00188	HMDB00167	0.90	0.93	0.89	0.98	1.01	1.03	1.01			
19			allo-threonine	GC/MS	15142	C05519	HMDB04041	1.40	0.90	1.08	1.51	0.97	1.14	0.87			
22			betaine	LC/MS pos	3141		HMDB00043	1.06	1.13	1.09	1.13	1.20	0.94	0.96			
24		Alanine and aspartate metabolism	aspartate	GC/MS	15996	C00049	HMDB00191	1.05	1.04	0.99	1.05	1.04	1.11	1.04			
26			beta-alanine	GC/MS	55	C00099	HMDB00056	1.18	1.19	1.07	1.16	1.18	1.22	1.10			
27			alanine	GC/MS	1126	C00041	HMDB00161	1.04	0.97	0.92	1.06	0.99	1.07	0.94			
27.1			N-acetylalanine	LC/MS neg	1585	C02847	HMDB00766	0.88	1.27	0.83	0.88	1.27	1.08	1.02			
29			N-acetylaspartate (NAA)	LC/MS neg	22185	C01042	HMDB00812	1.13	1.04	1.02	1.07	0.98	1.11	1.00			
39		Glutamate metabolism	glutamate	LC/MS pos	57	C00025	HMDB03339	1.04	0.98	0.94	1.02	0.96	1.02	0.92			
43			glutamate, gamma-methyl ester	LC/MS pos	33487			0.94	1.69	1.12	0.57	1.02	0.77	0.93			
44			glutamine	LC/MS pos	53	C00064	HMDB00641	1.03	1.11	0.97	1.05	1.13	1.12	1.06			
45			pyroglutamine*	LC/MS pos	32672			1.14	1.02	1.03	1.05	0.95	0.95	0.86			
46			gamma-aminobutyrate (GABA)	GC/MS	1416	C00334	HMDB00112	1.17	1.08	0.98	1.16	1.07	1.19	0.99			
47			N-acetylglutamate	LC/MS pos	15720	C00624	HMDB01138	0.79	0.80	0.70	1.28	1.30	1.42	1.26			
48			N-acetyl-aspartyl-glutamate (NAAG)	LC/MS pos	35665	C12270	HMDB01067	0.82	1.06	0.89	0.99	1.28	1.06	1.15			
49			N-acetylglutamine	LC/MS pos	33943	C02716	HMDB06029	0.86	0.87	0.78	1.07	1.09	1.09	0.99			
50		Histidine metabolism	histidine	LC/MS neg	59	C00135	HMDB00177	1.03	1.00	0.90	0.97	0.94	1.01	0.89			
60			1-methylimidazoleacetate	LC/MS pos	32350	C05828	HMDB02820	1.09	1.05	0.92	1.43	1.37	1.33	1.12			
69		Lysine metabolism	lysine	LC/MS pos	1301	C00047	HMDB00182	0.84	0.89	0.84	0.98	1.04	1.02	1.03			
71			2-aminoadipate	LC/MS pos	6146	C00956	HMDB00510	0.98	0.98	0.87	0.55	0.55	0.58	0.52			
74			pipecolate	LC/MS pos	1444	C00408	HMDB00070	1.02	1.08	0.82	1.01	1.06	1.24	1.00			
80			glutaroyl carnitine	LC/MS pos	35439		HMDB13130	1.19	1.15	0.95	0.48	0.47	0.56	0.45			
83		Phenylalanine & tyrosine metabolism	phenylalanine	LC/MS pos	64	C00079	HMDB00159	1.03	1.03	0.92	0.97	0.96	1.05	0.94			
99			tyrosine	LC/MS pos	1299	C00082	HMDB00158	0.97	0.96	0.84	0.95	0.95	1.03	0.89			
100			3-(4-hydroxyphenyl)lactate	LC/MS neg	32197	C03672	HMDB00755	1.09	0.79	0.75	1.12	0.81	0.88	0.61			
145		Tryptophan metabolism	tryptophan	LC/MS pos	54	C00078	HMDB00929	1.01	0.89	0.87	0.99	0.86	0.94	0.81			
164			C-glycosyltryptophan*	LC/MS pos	32675			0.87	0.93	0.84	0.99	1.06	1.04	1.00			
168			picolinate	GC/MS	1512	C10164	HMDB02243	1.05	0.71	1.03	1.27	0.86	0.91	0.89			
178		Valine, leucine and isoleucine metabolism	beta-hydroxyisovalerate	GC/MS	12129		HMDB00754	0.64	0.95	0.66	0.91	1.35	1.09	1.13			
180			isoleucine	LC/MS pos	1125	C00407	HMDB00172	0.90	1.00	0.90	0.98	1.08	1.07	1.06			
181			leucine	LC/MS pos	60	C00123	HMDB00687	0.93	1.01	0.90	1.00	1.09	1.14	1.11			
190			valine	LC/MS pos	1649	C00183	HMDB00883	0.94	0.94	0.87	1.01	1.01	1.05	0.98			
198			alpha-hydroxyisovalerate	GC/MS	33937		HMDB00407	0.94	1.20	1.01	1.00	1.27	1.14	1.23			
200			isobutyrylcarnitine	LC/MS pos	33441			0.89	0.92	0.97	0.94	0.96	1.07	1.16			
202			2-methylbutyroylcarnitine	LC/MS pos	35431		HMDB00378	0.89	0.84	0.78	1.08	1.02	1.06	0.93			
205			isovalerylcarnitine	LC/MS pos	34407		HMDB00688	0.81	0.82	0.57	1.21	1.22	1.55	1.10			
206			hydroxyisovaleroyl carnitine	LC/MS pos	35433			0.79	0.87	0.80	0.98	1.08	1.05	1.07			
213		Cysteine, methionine, SAM, taurine metabolism	cysteine	GC/MS	31453	C00097	HMDB00574	1.00	1.10	0.90	1.09	1.20	1.28	1.15			
220			N-formylmethionine	LC/MS neg	2829	C03145	HMDB01015	0.95	0.79	1.13	1.27	1.06	0.95	1.13			
222			taurine	GC/MS	2125	C00245	HMDB00251	1.02	1.08	0.96	0.99	1.06	1.01	0.96			
224			S-adenosylhomocysteine (SAH)	LC/MS neg	15948	C00021	HMDB00939	1.10	1.00	1.05	1.13	1.02	1.12	1.07			
225			methionine	LC/MS pos	1302	C00073	HMDB00696	0.98	1.02	0.91	0.98	1.01	1.07	0.99			
227			N-acetylmethionine	LC/MS neg	1589	C02712	HMDB11745	0.93	0.77	0.96	1.13	0.94	0.90	0.92			
229			2-hydroxybutyrate (AHB)	GC/MS	21044	C05984	HMDB00008	0.82	0.75	1.19	1.37	1.26	0.97	1.41			
241		Urea cycle; arginine-, proline-, metabolism	arginine	LC/MS pos	1638	C00062	HMDB00517	0.98	0.99	0.98	0.95	0.95	1.05	1.04			
244			ornithine	GC/MS	1493	C00077	HMDB03374	1.10	0.74	0.81	1.19	0.80	1.32	0.97			
245			urea	GC/MS	1670	C00086	HMDB00294	1.05	1.18	0.87	1.13	1.27	1.42	1.17			
246			proline	LC/MS pos	1898	C00148	HMDB00162	0.93	0.90	1.05	1.00	0.97	0.94	1.07			
247			5-aminovalerate	GC/MS	18319	C00431	HMDB03355	1.16	1.14	0.83	1.05	1.03	1.37	0.99			
248			citrulline	LC/MS pos	2132	C00327	HMDB00904	0.70	0.81	0.77	0.89	1.03	1.00	1.10			
255			argininosuccinate	LC/MS pos	15497	C03406	HMDB00052	0.98	1.03	1.15	1.03	1.09	0.92	1.08			
259		Creatine metabolism	creatine	LC/MS pos	27718	C00300	HMDB00064	0.99	1.00	0.99	0.98	0.99	0.98	0.98			
260			creatinine	LC/MS pos	513	C00791	HMDB00562	1.04	1.08	0.99	0.99	1.03	1.05	1.00			
263		Butanoate metabolism	2-aminobutyrate	GC/MS	1577	C02261	HMDB00650	0.93	1.07	1.26	1.19	1.36	1.07	1.45			
266		Polyamine metabolism	5-methylthioadenosine (MTA)	LC/MS pos	1419	C00170	HMDB01173	0.95	1.13	0.97	1.09	1.30	1.10	1.12			
270			spermidine	LC/MS pos	485	C00315	HMDB01257	1.09	1.52	1.18	0.95	1.33	1.10	1.19			
273			spermine	LC/MS pos	603	C00750	HMDB01256	0.95	1.53	1.58	0.95	1.53	0.98	1.62			
275		Guanidino and acetamido metabolism	4-guanidinobutanoate	LC/MS pos	15681	C01035	HMDB03464	0.78	0.78	0.81	1.01	1.01	1.01	1.06			
280		Glutathione metabolism	glutathione, reduced (GSH)	LC/MS pos	2127	C00051	HMDB00125	0.73	0.73	1.12	1.16	1.15	0.82	1.24			
282			5-oxoproline	LC/MS neg	1494	C01879	HMDB00267	1.02	1.18	1.00	1.03	1.18	1.20	1.17			
283			glutathione, oxidized (GSSG)	LC/MS pos	38783	C00127	HMDB03337	0.80	0.76	0.79	1.12	1.07	0.85	0.84			
284			cysteine-glutathione disulfide	LC/MS pos	35159		HMDB00656	0.91	0.89	0.81	1.11	1.09	1.33	1.18			
285			ophthalmate	LC/MS pos	34592		HMDB05765	1.12	1.21	0.99	1.12	1.22	1.30	1.16			
298	Peptide	Dipeptide	glycylserine	GC/MS	33940		HMDB00678	1.09	1.42	0.93	0.92	1.21	1.22	1.04			
301			glycylleucine	LC/MS pos	34398	C02155	HMDB00759	0.84	0.89	0.99	0.75	0.80	0.89	1.05			
366			isoleucylglycine	LC/MS pos	40008			0.92	1.11	0.93	0.87	1.06	0.99	1.00			
373			leucylalanine	LC/MS pos	40010			0.93	1.66	1.20	0.99	1.77	1.16	1.50			
377			leucylglutamate	LC/MS pos	40021			0.81	1.52	1.12	0.88	1.64	1.13	1.56			
378			leucylglycine	LC/MS pos	40045			0.96	1.91	0.86	0.76	1.51	1.05	0.94			
391			threonylleucine	LC/MS pos	40051			0.92	2.18	0.90	0.85	2.01	1.41	1.38			
397		Dipeptide derivative	carnosine	LC/MS neg	1768	C00386	HMDB00033	1.25	1.28	1.32	1.03	1.06	1.25	1.32			
398			homocarnosine	LC/MS neg	1633	C00884	HMDB00745	0.75	0.84	0.80	0.99	1.10	1.06	1.14			
399			anserine	LC/MS neg	15747	C01262	HMDB00194	1.25	0.89	1.12	1.24	0.88	1.48	1.32			
404		gamma-glutamyl	gamma-glutamylleucine	LC/MS pos	18369		HMDB11171	1.05	1.01	0.92	1.11	1.07	1.24	1.08			
409			gamma-glutamylglutamate	LC/MS pos	36738			1.00	0.97	0.92	1.05	1.02	1.08	1.00			
410			gamma-glutamylglutamine	LC/MS pos	2730		HMDB11738	1.13	1.11	1.02	1.12	1.10	1.17	1.06			
412			gamma-glutamylphenylalanine	LC/MS pos	33422		HMDB00594	1.04	0.97	0.99	1.02	0.96	1.01	0.97			
413			gamma-glutamyltyrosine	LC/MS pos	2734			0.96	0.78	1.02	1.20	0.98	1.05	1.11			
414			gamma-glutamylthreonine*	LC/MS pos	33364			1.00	0.95	1.05	1.07	1.01	1.11	1.17			
453	Carbohydrate	Aminosugars metabolism	erythronate*	GC/MS	33477		HMDB00613	0.96	1.02	0.84	1.04	1.10	1.11	0.97			
455			N-acetylneuraminate	LC/MS pos	32377	C00270	HMDB00230	0.99	0.92	0.90	1.03	0.96	1.01	0.91			
472		Fructose, mannose, galactose, starch, and sucrose metabolism	fructose	GC/MS	31266	C00095	HMDB00660	0.95	1.03	0.90	1.00	1.08	1.06	1.00			
480			6'-sialyllactose	GC/MS	39795	G00265	HMDB06569	1.11	0.99	0.98	1.08	0.97	1.13	1.00			
483			mannitol	GC/MS	15335	C00392	HMDB00765	0.76	1.37	0.82	0.89	1.61	1.10	1.20			
489			mannose-6-phosphate	GC/MS	1470	C00275	HMDB01078	0.91	0.99	0.96	1.16	1.26	1.23	1.29			
495			sorbitol	GC/MS	15053	C00794	HMDB00247	1.07	1.23	0.76	1.08	1.25	1.25	0.89			
515		Glycolysis, gluconeogenesis, pyruvate metabolism	1,5-anhydroglucitol (1,5-AG)	GC/MS	20675	C07326	HMDB02712	1.06	1.28	1.40	0.99	1.19	0.90	1.19			
517			glycerate	GC/MS	1572	C00258	HMDB00139	1.10	1.09	1.03	0.88	0.87	1.08	1.01			
519			glucose-6-phosphate (G6P)	GC/MS	31260	C00668	HMDB01401	0.93	0.99	0.86	1.20	1.27	1.39	1.29			
521			glucose	GC/MS	20488	C00293	HMDB00122	0.93	0.88	0.74	1.07	1.01	1.33	1.06			
524			fructose-6-phosphate	GC/MS	12021	C05345	HMDB00124	0.98	1.01	0.93	1.12	1.16	1.19	1.13			
527			Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol 1,4 or 1,3-diphosphate	LC/MS neg	36984			0.49	0.63	0.60	0.67	0.87	0.61	0.75			
529			3-phosphoglycerate	GC/MS	1414	C00597	HMDB00807	1.29	1.06	0.98	1.04	0.86	0.96	0.73			
531			dihydroxyacetone phosphate (DHAP)	LC/MS neg	35959	C00111	HMDB01473	0.91	1.19	0.87	1.02	1.33	1.25	1.19			
535			pyruvate	GC/MS	599	C00022	HMDB00243	0.96	1.12	0.91	1.00	1.18	1.18	1.13			
536			lactate	GC/MS	527	C00186	HMDB00190	1.10	1.00	0.97	1.02	0.93	1.06	0.93			
543		Glyoxylate and dicarboxylate metabolism	oxalate (ethanedioate)	GC/MS	20694	C00209	HMDB02329	1.06	1.73	1.00	0.72	1.17	1.14	1.08			
546		Nucleotide sugars, pentose metabolism	arabitol	GC/MS	38075	C00474	HMDB01851	1.25	0.90	1.16	1.32	0.95	1.30	1.21			
548			ribitol	GC/MS	15772	C00474	HMDB00508	1.13	0.90	0.87	1.06	0.84	1.06	0.82			
551			sedoheptulose-7-phosphate	GC/MS	35649	C05382	HMDB01068	0.99	1.06	0.80	1.05	1.11	1.25	1.00			
554			ribose	GC/MS	12080	C00121	HMDB00283	0.93	0.98	0.96	1.03	1.09	1.18	1.22			
559			ribulose	GC/MS	35855	C00309	HMDB00621,HMDB03371	1.09	0.90	0.81	0.96	0.79	1.07	0.80			
561			Isobar: ribulose 5-phosphate, xylulose 5-phosphate	GC/MS	37288			0.90	0.95	0.92	1.10	1.16	1.14	1.16			
566			arabinose	GC/MS	575	C00181	HMDB00646	1.33	0.92	1.11	1.24	0.86	1.16	0.97			
579	Energy	Krebs cycle	citrate	GC/MS	1564	C00158	HMDB00094	1.08	0.95	0.94	1.06	0.93	1.21	1.06			
582			cis-aconitate	LC/MS neg	12025	C00417	HMDB00072	0.95	1.00	1.03	1.06	1.12	1.23	1.34			
591			succinylcarnitine	LC/MS pos	37058			0.97	1.25	1.02	0.97	1.26	1.11	1.16			
594			fumarate	GC/MS	1643	C00122	HMDB00134	0.92	0.81	0.97	1.09	0.96	0.94	0.99			
598			malate	GC/MS	1303	C00149	HMDB00156	1.07	0.94	0.95	1.12	0.98	0.92	0.81			
601		Oxidative phosphorylation	acetylphosphate	GC/MS	15488	C00227	HMDB01494	0.87	1.26	0.92	0.82	1.19	0.97	1.03			
602			phosphate	GC/MS	11438	C00009	HMDB01429	1.08	1.10	0.99	1.01	1.03	1.09	1.00			
603			pyrophosphate (PPi)	GC/MS	2078	C00013	HMDB00250	0.79	1.42	0.71	0.77	1.38	1.06	0.95			
604	Lipid	Essential fatty acid	linoleate (18:2n6)	LC/MS neg	1105	C01595	HMDB00673	1.02	1.07	1.00	1.02	1.06	1.23	1.20			
608			linolenate [alpha or gamma; (18:3n3 or 6)]	LC/MS neg	34035	C06427	HMDB01388	1.14	1.11	0.92	1.23	1.20	1.47	1.19			
609			dihomo-linolenate (20:3n3 or n6)	LC/MS neg	35718	C03242	HMDB02925	0.89	1.32	0.91	0.75	1.10	0.98	1.00			
610			eicosapentaenoate (EPA; 20:5n3)	LC/MS neg	18467	C06428	HMDB01999	1.16	1.73	1.01	0.76	1.13	1.11	0.96			
611			docosapentaenoate (n3 DPA; 22:5n3)	LC/MS neg	32504	C16513	HMDB01976	1.03	1.52	0.87	0.83	1.22	1.16	0.98			
612			docosapentaenoate (n6 DPA; 22:5n6)	LC/MS neg	37478	C06429	HMDB13123	0.72	1.21	0.81	0.85	1.43	1.01	1.14			
613			docosahexaenoate (DHA; 22:6n3)	LC/MS neg	19323	C06429	HMDB02183	1.00	1.28	0.97	0.88	1.13	1.08	1.05			
618		Medium chain fatty acid	caproate (6:0)	LC/MS neg	32489	C01585	HMDB00535	1.11	1.53	1.01	1.03	1.42	1.23	1.12			
620			caprylate (8:0)	LC/MS neg	32492	C06423	HMDB00482	0.81	0.94	1.15	1.05	1.21	0.94	1.33			
621			pelargonate (9:0)	LC/MS neg	12035	C01601	HMDB00847	0.95	1.08	1.11	0.95	1.08	0.92	1.08			
625			laurate (12:0)	LC/MS neg	1645	C02679	HMDB00638	1.20	1.17	1.06	1.06	1.03	1.08	0.96			
629		Long chain fatty acid	myristate (14:0)	LC/MS neg	1365	C06424	HMDB00806	0.91	1.02	0.94	0.95	1.07	1.01	1.04			
630			myristoleate (14:1n5)	LC/MS neg	32418	C08322	HMDB02000	1.14	0.88	1.02	1.43	1.11	1.09	0.97			
632			palmitate (16:0)	LC/MS neg	1336	C00249	HMDB00220	0.97	1.06	1.02	0.92	1.00	0.98	1.03			
633			palmitoleate (16:1n7)	LC/MS neg	33447	C08362	HMDB03229	1.02	1.43	1.03	0.84	1.18	1.07	1.08			
635			margarate (17:0)	LC/MS neg	1121		HMDB02259	0.95	1.24	0.92	0.89	1.15	1.04	1.00			
636			10-heptadecenoate (17:1n7)	LC/MS neg	33971			1.05	1.73	0.93	0.75	1.24	1.09	0.97			
637			stearate (18:0)	LC/MS neg	1358	C01530	HMDB00827	0.94	1.10	1.02	0.89	1.04	0.96	1.04			
639			oleate (18:1n9)	GC/MS	1359	C00712	HMDB00207	1.22	1.00	1.12	1.11	0.91	1.09	1.00			
641			cis-vaccenate (18:1n7)	GC/MS	33970	C08367		1.19	1.08	1.13	1.10	1.00	1.07	1.02			
648			10-nonadecenoate (19:1n9)	LC/MS neg	33972			1.00	1.29	0.93	0.85	1.09	1.06	0.98			
653			eicosenoate (20:1n9 or 11)	LC/MS neg	33587		HMDB02231	0.82	1.20	0.84	0.72	1.06	1.04	1.07			
655			dihomo-linoleate (20:2n6)	LC/MS neg	17805	C16525		0.89	1.34	0.85	0.73	1.10	1.07	1.03			
658			mead acid (20:3n9)	LC/MS neg	35174		HMDB10378	1.11	1.43	0.97	0.73	0.94	1.06	0.92			
659			arachidonate (20:4n6)	LC/MS neg	1110	C00219	HMDB01043	1.03	1.24	1.01	0.92	1.10	1.00	0.98			
665			adrenate (22:4n6)	LC/MS neg	32980	C16527	HMDB02226	0.80	1.04	1.02	0.85	1.10	0.84	1.07			
710		Fatty acid, monohydroxy	13-HODE + 9-HODE	LC/MS neg	37752			1.18	1.11	0.94	1.05	0.99	1.33	1.06			
714		Fatty acid, dicarboxylate	2-hydroxyglutarate	GC/MS	37253	C02630	HMDB00606	1.14	1.11	1.04	1.13	1.09	1.07	0.97			
756		Eicosanoid	prostaglandin D2	LC/MS neg	7737	C00696	HMDB01403	1.08	1.30	1.19	0.88	1.06	1.13	1.24			
758			prostaglandin E2	LC/MS neg	7746	C00584	HMDB01220	1.06	1.21	1.12	0.93	1.06	1.05	1.11			
792			5-HETE	LC/MS neg	37372			1.07	1.51	0.95	0.95	1.34	1.03	0.91			
796			15-HETE	LC/MS neg	37538	C04742	HMDB02110	1.23	1.27	1.09	1.10	1.13	1.08	0.95			
809		Fatty acid metabolism (also BCAA metabolism)	propionylcarnitine	LC/MS pos	32452	C03017	HMDB00824	1.04	1.16	0.97	0.89	1.00	1.05	0.97			
820		Carnitine metabolism	carnitine	LC/MS pos	15500			0.86	0.96	0.88	0.97	1.08	1.09	1.11			
821			3-dehydrocarnitine*	LC/MS pos	32654	C02636	HMDB12154	1.11	1.03	0.82	2.17	2.02	3.30	2.45			
822			acetylcarnitine	LC/MS pos	32198	C02571	HMDB00201	0.93	1.10	0.86	0.87	1.03	1.09	1.01			
833			palmitoylcarnitine	LC/MS pos	22189			1.28	0.30	1.04	0.73	0.17	0.33	0.27			
835			oleoylcarnitine	LC/MS pos	35160		HMDB05065	1.06	0.24	0.91	0.92	0.21	0.52	0.45			
875		Glycerolipid metabolism	choline phosphate	LC/MS pos	34396			0.98	0.93	0.96	0.99	0.93	1.02	0.99			
876			ethanolamine	GC/MS	34285	C00189	HMDB00149	1.07	1.25	1.03	0.97	1.13	1.14	1.10			
877			phosphoethanolamine	GC/MS	12102	C00346	HMDB00224	1.30	1.13	1.01	1.08	0.94	1.10	0.86			
880			glycerol	GC/MS	15122	C00116	HMDB00131	1.03	1.06	1.03	0.99	1.02	1.02	1.01			
882			glycerol 3-phosphate (G3P)	GC/MS	15365	C00093	HMDB00126	1.28	1.11	1.18	1.18	1.02	1.14	1.04			
883			glycerophosphorylcholine (GPC)	LC/MS pos	15990	C00670	HMDB00086	1.21	1.02	1.23	1.24	1.05	1.09	1.11			
890		Inositol metabolism	myo-inositol	GC/MS	19934	C00137	HMDB00211	1.07	1.10	1.00	1.04	1.07	1.10	1.03			
893			inositol 1-phosphate (I1P)	GC/MS	1481		HMDB00213	1.00	1.15	1.02	0.95	1.09	0.97	1.00			
896			inositol 2-phosphate (I2P)	GC/MS	27725	C01177	HMDB01313,HMDB02985,HMDB00	0.96	0.89	1.47	1.24	1.15	0.81	1.25			
898			scyllo-inositol	GC/MS	32379	C06153	HMDB06088	1.14	1.34	1.15	0.87	1.03	1.00	1.01			
903		Ketone bodies	3-hydroxybutyrate (BHBA)	GC/MS	542	C01089	HMDB00357	0.92	0.86	1.13	1.20	1.12	0.94	1.15			
909		Lysolipid	1-palmitoylglycerophosphoethanolamine	LC/MS neg	35631		HMDB11503	0.71	0.81	1.14	0.88	1.01	0.87	1.40			
910			2-palmitoylglycerophosphoethanolamine*	LC/MS neg	35684			0.84	0.15	0.82	0.73	0.13	0.65	0.64			
912			2-palmitoleoylglycerophosphoethanolamine*	LC/MS pos	34871			1.62	0.20	1.10	0.45	0.06	0.19	0.13			
914			1-stearoylglycerophosphoethanolamine	LC/MS pos	34416		HMDB11130	0.83	0.23	0.67	0.74	0.20	0.72	0.58			
915			1-oleoylglycerophosphoethanolamine	LC/MS neg	35628		HMDB11506	0.63	0.67	1.21	0.91	0.98	0.84	1.63			
916			2-oleoylglycerophosphoethanolamine*	LC/MS neg	35687			0.71	0.82	1.06	0.84	0.97	0.97	1.44			
919			1-arachidonoylglycerophosphoethanolamine*	LC/MS neg	35186		HMDB11517	0.70	0.85	1.05	0.81	0.99	0.85	1.27			
920			2-arachidonoylglycerophosphoethanolamine*	LC/MS neg	32815			0.78	0.96	1.16	0.86	1.05	0.86	1.28			
922			2-docosapentaenoylglycerophosphoethanolamine*	LC/MS pos	34875			1.03	0.39	0.97	0.75	0.29	0.82	0.76			
923			2-docosahexaenoylglycerophosphoethanolamine*	LC/MS pos	34258			1.57	0.07	0.88	0.46	0.02	0.07	0.04			
929			1-palmitoylglycerophosphocholine	LC/MS pos	33955			1.38	0.06	0.79	0.36	0.01	0.05	0.03			
930			2-palmitoylglycerophosphocholine*	LC/MS pos	35253			0.91	0.17	0.95	0.78	0.14	0.81	0.84			
934			1-stearoylglycerophosphocholine	LC/MS pos	33961			0.90	0.14	0.70	0.69	0.11	0.61	0.47			
935			2-stearoylglycerophosphocholine*	LC/MS pos	35255			0.79	0.54	0.70	0.57	0.39	0.54	0.48			
936			1-oleoylglycerophosphocholine	LC/MS pos	33960			1.05	0.14	0.81	0.70	0.10	0.61	0.47			
937			2-oleoylglycerophosphocholine*	LC/MS pos	35254			1.05	0.18	1.08	0.77	0.13	0.71	0.73			
945			2-arachidonoylglycerophosphocholine*	LC/MS pos	35256			1.22	0.12	1.15	0.65	0.07	0.52	0.50			
949			2-docosahexaenoylglycerophosphocholine*	LC/MS pos	35883			1.27	0.24	1.15	1.03	0.20	0.89	0.81			
951			1-palmitoylglycerophosphoinositol*	LC/MS neg	35305			0.86	0.94	1.03	0.91	0.99	0.94	1.12			
954			1-stearoylglycerophosphoinositol	LC/MS neg	19324			0.91	1.02	0.88	0.91	1.02	1.10	1.06			
956			1-oleoylglycerophosphoinositol*	LC/MS neg	36602			0.78	1.43	0.50	0.63	1.15	1.43	0.91			
959			1-arachidonoylglycerophosphoinositol*	LC/MS neg	34214			1.06	1.28	1.23	0.88	1.06	0.98	1.13			
960			2-arachidonoylglycerophosphoinositol*	LC/MS neg	38077			1.42	1.28	0.77	0.86	0.77	1.03	0.56			
962			1-oleoylglycerophosphoserine	LC/MS neg	19260			0.97	0.96	0.90	1.02	1.02	1.27	1.17			
963			2-oleoylglycerophosphoserine*	LC/MS neg	37948			1.24	0.89	1.46	1.18	0.85	1.07	1.26			
964			1-palmitoylplasmenylethanolamine*	LC/MS neg	39270			0.64	0.61	1.03	0.94	0.90	0.79	1.26			
971		Monoacylglycerol	2-palmitoylglycerol (2-monopalmitin)	GC/MS	33419			1.21	0.71	1.24	1.49	0.87	1.09	1.12			
973			2-stearoylglycerol (2-monostearin)	GC/MS	34059			1.17	0.57	1.03	1.33	0.65	1.31	1.14			
989		Diacylglycerol	1,2-dipalmitoylglycerol	GC/MS	35727		HMDB07098	0.99	0.78	0.96	1.11	0.87	0.96	0.94			
990			1,3-dipalmitoylglycerol	GC/MS	35728			0.98	0.82	0.96	1.05	0.88	0.96	0.94			
993		Sphingolipid	sphinganine	LC/MS pos	17769	C00836	HMDB00269	0.73	0.42	0.82	0.74	0.43	0.63	0.71			
995			sphingosine	LC/MS pos	17747	C00319	HMDB00252	0.78	0.23	0.81	0.82	0.24	0.74	0.77			
1004			palmitoyl sphingomyelin	GC/MS	37506			1.23	1.13	1.17	1.22	1.12	1.20	1.15			
1005			stearoyl sphingomyelin	GC/MS	19503	C00550	HMDB01348	1.17	1.01	1.08	1.04	0.90	1.04	0.97			
1018		Sterol/Steroid	lathosterol	GC/MS	39864	C01189	HMDB01170	0.80	0.62	0.85	0.94	0.73	0.70	0.75			
1020			cholesterol	GC/MS	63	C00187	HMDB00067	1.03	0.79	1.04	1.00	0.76	0.90	0.91			
1023			7-alpha-hydroxycholesterol	GC/MS	35692	C03594	HMDB01496	1.09	1.50	1.06	0.84	1.15	1.09	1.05			
1024			7-beta-hydroxycholesterol	GC/MS	35092	C03594	HMDB06119	1.16	1.31	0.94	0.98	1.11	1.28	1.04			
1026			24(S)-hydroxycholesterol	GC/MS	36866	C13550	HMDB01419	1.50	1.09	1.13	1.15	0.84	1.14	0.86			
1052			corticosterone	LC/MS pos	5983	C02140	HMDB01547	0.93	0.61	0.62	1.06	0.69	0.88	0.58			
1061			lanosterol	GC/MS	1128	C01724	HMDB01251	0.65	0.67	0.75	0.89	0.91	0.81	0.93			
1092		Free fatty acid	desmosterol	GC/MS	6065	C01802	HMDB02719	0.69	0.56	0.75	0.98	0.80	0.73	0.80			
1095	Nucleotide	Purine metabolism, (hypo)xanthine/inosine containing	xanthine	LC/MS pos	3147	C00385	HMDB00292	1.16	1.10	0.96	1.04	0.98	1.12	0.93			
1096			xanthosine	LC/MS pos	15136	C01762	HMDB00299	1.31	1.63	1.07	0.75	0.94	1.22	1.00			
1098			hypoxanthine	LC/MS pos	3127	C00262	HMDB00157	1.00	1.06	0.95	1.00	1.06	1.11	1.05			
1099			inosine	LC/MS neg	1123			1.03	1.07	0.96	1.05	1.08	1.09	1.01			
1101			inosine 5'-monophosphate (IMP)	LC/MS pos	2133	C00130	HMDB00175	0.20	0.27	0.29	0.89	1.22	0.87	1.23			
1105		Purine metabolism, adenine containing	adenine	GC/MS	554	C00147	HMDB00034	1.21	0.98	1.09	1.34	1.09	1.20	1.09			
1106			adenosine	LC/MS pos	555	C00212	HMDB00050	2.33	0.77	1.48	1.74	0.57	1.01	0.64			
1108			N1-methyladenosine	LC/MS pos	15650	C02494	HMDB03331	0.89	1.01	1.07	0.96	1.09	0.93	1.12			
1112			adenosine 2'-monophosphate (2'-AMP)	LC/MS pos	36815	C00946	HMDB11617	0.82	0.99	0.79	0.95	1.15	0.85	0.82			
1114			adenosine 5'-monophosphate (AMP)	LC/MS pos	32342	C00020	HMDB00045	0.73	0.74	0.83	1.26	1.27	0.95	1.08			
1128		Purine metabolism, guanine containing	guanosine	LC/MS pos	1573	C00387	HMDB00133	1.10	1.11	0.94	1.01	1.02	1.07	0.92			
1150		Purine metabolism, urate metabolism	allantoin	GC/MS	1107	C02350	HMDB00462	0.75	0.97	0.66	1.01	1.31	1.10	0.97			
1153		Pyrimidine metabolism, cytidine containing	cytidine	LC/MS pos	514	C00475	HMDB00089	0.95	1.03	0.72	0.96	1.04	1.48	1.13			
1157			cytidine 5'-monophosphate (5'-CMP)	LC/MS pos	2372	C00055	HMDB00095	0.79	0.82	0.78	0.97	1.01	1.06	1.05			
1178		Pyrimidine metabolism, uracil containing	uracil	GC/MS	605	C00106	HMDB00300	1.16	1.16	1.08	1.00	1.00	1.08	1.00			
1180			uridine	LC/MS neg	606	C00299	HMDB00296	0.97	0.96	0.96	1.06	1.05	1.04	1.04			
1181			pseudouridine	LC/MS neg	33442	C02067	HMDB00767	0.92	0.93	0.92	1.03	1.04	1.01	1.01			
1193		Purine and pyrimidine metabolism	methylphosphate	GC/MS	37070			1.08	1.10	0.93	0.98	1.00	1.14	0.99			
1197	Cofactors and vitamins	Ascorbate and aldarate metabolism	ascorbate (Vitamin C)	GC/MS	1640	C00072	HMDB00044	1.14	0.79	1.29	1.35	0.94	1.02	1.15			
1198			dehydroascorbate	GC/MS	1659	C05422	HMDB01264	1.01	1.12	0.88	0.78	0.86	0.89	0.78			
1200			glucarate (saccharate)	GC/MS	1476	C00818	HMDB00663	0.93	1.30	1.22	0.72	1.00	0.90	1.17			
1221		Nicotinate and nicotinamide metabolism	nicotinamide	LC/MS pos	594	C00153	HMDB01406	1.06	1.25	0.99	1.05	1.23	1.15	1.07			
1224			nicotinamide adenine dinucleotide (NAD+)	LC/MS pos	5278	C00003	HMDB00902	1.17	1.20	1.06	1.19	1.22	1.11	1.00			
1243		Pantothenate and CoA metabolism	pantothenate	LC/MS pos	1508	C00864	HMDB00210	1.19	1.22	0.96	1.08	1.11	1.26	1.01			
1245			coenzyme A	LC/MS neg	2936	C00010	HMDB01423	1.05	1.27	1.19	1.17	1.43	1.03	1.18			
1246			3'-dephosphocoenzyme A	LC/MS neg	18289	C00882	HMDB01373	0.92	0.99	1.17	1.12	1.21	0.94	1.19			
1258		Pyridoxal metabolism	pyridoxal	LC/MS pos	1651	C00250	HMDB01545	0.86	1.04	0.80	0.94	1.13	0.93	0.86			
1259		Riboflavin metabolism	flavin adenine dinucleotide (FAD)	LC/MS neg	2134	C00016	HMDB01248	1.02	1.07	1.01	1.02	1.07	1.03	1.02			
1260			riboflavin (Vitamin B2)	LC/MS pos	1827	C00255	HMDB00244	1.02	1.24	1.17	1.09	1.32	1.03	1.18			
1318	Xenobiotics	Chemical	glycolate (hydroxyacetate)	GC/MS	15737	C00160	HMDB00115	1.03	1.07	0.90	0.95	0.98	1.02	0.89			
1324			glycerol 2-phosphate	GC/MS	27728	C02979,D01488	HMDB02520	1.21	1.15	0.93	1.05	1.00	1.20	0.91			
1348			2-pyrrolidinone	GC/MS	31675		HMDB02039	1.09	1.12	1.02	0.96	0.98	1.04	0.96			
1360			2-ethylhexanoate (isobar with 2-propylpentanoate)	LC/MS neg	35490			1.05	1.14	1.06	0.99	1.08	1.00	1.02			
1565		Food component/Plant	ergothioneine	LC/MS pos	37459	C05570	HMDB03045	1.33	1.45	1.47	1.00	1.09	1.14	1.25			
1632		Sugar, sugar substitute, starch	erythritol	GC/MS	20699	C00503	HMDB02994	1.05	1.01	0.90	1.13	1.10	1.23	1.06			