

Name (*not separated so measured as one)	HMDB	KEGG	Classification	PFPP	C18	Group
Acetylcarnitine	HMDB00201	C02571	Acyl carnitines	YES		Acyl Carnitines
Deoxycarnitine	HMDB01161	C01181	Acyl carnitines Carnitine Biosynthesis	YES		Acyl Carnitines
N6,N6,N6-Trimethyllysine	HMDB01325	C03793	Carnitine Biosynthesis	YES		Acyl Carnitines
Carnitine	HMDB00062	C00318	Carnitine Biosynthesis	YES		Acyl Carnitines
Adipoylcarnitine / 3-Methylglutarylcarnitine*	HMDB61677 HMDB00552	n/a n/a	Acyl carnitines		YES	Acyl Carnitines
(2E)-Dodecenoylcarnitine	HMDB13326	n/a	Acyl carnitines		YES	Acyl Carnitines
(2E)-Hexadecenoylcarnitine	HMDB0253127	n/a	Acyl carnitines		YES	Acyl Carnitines
(2E)-Octenoylcarnitine	HMDB13324	n/a	Acyl carnitines		YES	Acyl Carnitines
Tiglylcarnitine	HMDB02366	n/a	Acyl carnitines		YES	Acyl Carnitines
(9Z)-3-Hydroxypalmitoleoylcarnitine	HMDB0240770	n/a	Acyl carnitines		YES	Acyl Carnitines
(5Z,8Z)-Tetradecandienoylcarnitine	HMDB0240756	n/a	Acyl carnitines		YES	Acyl Carnitines
3-Hydroxyhexanoylcarnitine	HMDB13131	n/a	Acyl carnitines		YES	Acyl Carnitines
Methylmalonylcarnitine / Succinylcarnitine / 3-Hydroxyisovaleroylcarnitine*	HMDB13133 HMDB61717 HMDB62555	n/a n/a n/a	Acyl carnitines		YES	Acyl Carnitines
Malonylcarnitine / 3-Hydroxybutyrylcarnitine*	HMDB02095 HMDB13127	n/a n/a	Acyl carnitines		YES	Acyl Carnitines
(2E)-Decenoylcarnitine	HMDB0241072	n/a	Acyl carnitines		YES	Acyl Carnitines
Lauroylcarnitine	HMDB02250	n/a	Acyl carnitines		YES	Acyl Carnitines
Palmitoylcarnitine	HMDB00222	C02990	Acyl carnitines		YES	Acyl Carnitines
Stearoylcarnitine	HMDB00848	n/a	Acyl carnitines		YES	Acyl Carnitines
3-Hydroxypalmitoylcarnitine	HMDB13336	n/a	Acyl carnitines		YES	Acyl Carnitines
Isobutyrylcarnitine	HMDB00736	n/a	Acyl carnitines		YES	Acyl Carnitines
Caprylylcarnitine	HMDB00791	C02838	Acyl carnitines		YES	Acyl Carnitines
Arachidonoylcarnitine	HMDB06455	n/a	Acyl carnitines		YES	Acyl Carnitines
3-Hydroxystearoylcarnitine	HMDB0240769	n/a	Acyl carnitines		YES	Acyl Carnitines
Caprylcarnitine	HMDB00651	n/a	Acyl carnitines		YES	Acyl Carnitines
Caproylcarnitine	HMDB00705	n/a	Acyl carnitines		YES	Acyl Carnitines
Butyrylcarnitine	HMDB02013	C02862	Acyl carnitines		YES	Acyl Carnitines
Oleoylcarnitine	HMDB05065	n/a	Acyl carnitines		YES	Acyl Carnitines
Linoleoylcarnitine	HMDB06469	n/a	Acyl carnitines		YES	Acyl Carnitines
Myristoylcarnitine	HMDB05066	n/a	Acyl carnitines		YES	Acyl Carnitines
Arachidoylcarnitine	HMDB06460	n/a	Acyl carnitines		YES	Acyl Carnitines
(2E)-Tetradecenoylcarnitine	HMDB13329	n/a	Acyl carnitines		YES	Acyl Carnitines
Valerylcarnitine / Isovalerylcarnitine / 2-Methylbutyrylcarnitine*	HMDB13128 HMDB00688	n/a n/a	Acyl carnitines		YES	Acyl Carnitines
Propionylcarnitine	HMDB00824	C03017	Acyl carnitines		YES	Acyl Carnitines
Glutaryl carnitine	HMDB13130	n/a	Acyl carnitines		YES	Acyl Carnitines
Paraxanthine	HMDB01860	C13747	Purine alkaloids	YES	YES	Alkaloids
Caffeine	HMDB01847	C07481	Purine alkaloids	YES	YES	Alkaloids
Theobromine	HMDB02825	C07480	Purine alkaloids	YES	YES	Alkaloids
6-Hydroxynicotinic acid	HMDB02658	C01020	Pyridine alkaloids	YES		Alkaloids
Trigonelline	HMDB00875	C01004	Pyridine alkaloids	YES		Alkaloids
Nicotine	HMDB01934	C00745	Pyridine alkaloids	YES		Alkaloids
Theophylline	HMDB01889	C07130	Purine alkaloids		YES	Alkaloids
Melatonin	HMDB01389	C01598	Biogenic amines Hormones	YES	YES	Amines / Biogenic Amines
Serotonin	HMDB00259	C00780	Biogenic amines Neurotransmitters	YES	YES	Amines / Biogenic Amines
N-Acetylserotonin	HMDB01238	C00978	Biogenic amines Neurotransmitters	YES	YES	Amines / Biogenic Amines
N-Methylserotonin	HMDB04369	C06212	Biogenic amines Neurotransmitters	YES	YES	Amines / Biogenic Amines
Trimethylamine N-oxide	HMDB00925	C01104	Amine Oxides Microbial Metabolism	YES		Amines / Biogenic Amines
Trimethylamine	HMDB00906	C00565	Biogenic Amines	YES		Amines / Biogenic Amines
Phenylethanolamine	HMDB01065	C02735	Biogenic amines	YES		Amines / Biogenic Amines
Tyramine	HMDB00306	C00483	Biogenic amines Catecholamines & Metabolites	YES		Amines / Biogenic Amines

3-Methoxytyramine	HMD800022	C05587	Biogenic amines Catecholamines & Metabolites	YES		Amines / Biogenic Amines
Putrescine	HMD801414	C00134	Biogenic amines Polyamines	YES		Amines / Biogenic Amines
N-Acetylputrescine	HMD802064	C02714	Biogenic amines Polyamines	YES		Amines / Biogenic Amines
Phenylethylamine	HMD812275	C05332	Biogenic amines Catecholamines & Metabolites	YES		Amines / Biogenic Amines
Histamine	HMD800870	C00388	Biogenic Amines Other hormones	YES		Amines / Biogenic Amines
Cadaverine	HMD802322	C01672	Biogenic amines Polyamines	YES		Amines / Biogenic Amines
3,4-Dihydroxyphenylglycol	HMD800318	C05576	Catecholamines & Metabolites	YES		Amines / Biogenic Amines
Normetanephrine	HMD800819	C05589	Catecholamines & Metabolites	YES		Amines / Biogenic Amines
Metanephrine	HMD804063	C05588	Catecholamines & Metabolites	YES		Amines / Biogenic Amines
Choline	HMD800097	C00114	Choline & Metabolites	YES		Amines / Biogenic Amines
Sn-Glycero-3-phosphocholine	HMD800086	C00670	Choline & Metabolites	YES		Amines / Biogenic Amines
Acetylcholine	HMD800895	C01996	Neurotransmitters Choline & Metabolites	YES		Amines / Biogenic Amines
Dopamine	HMD800073	C03758	Other hormones Neurotransmitters	YES		Amines / Biogenic Amines
Epinephrine	HMD800068	C00788	Other hormones Neurotransmitters	YES		Amines / Biogenic Amines
Norepinephrine	HMD800216	C00547	Other hormones Neurotransmitters	YES		Amines / Biogenic Amines
Tryptamine	HMD800303	C00398	Biogenic amines Indole alkaloids		YES	Amines / Biogenic Amines
N-Methyltryptamine	HMD804370	C06213	Biogenic amines Indole alkaloids		YES	Amines / Biogenic Amines
Phenylalanine	HMD800159	C00079	Common amino acids Essential amino acids	YES	YES	Amino Acids
Tryptophan	HMD800929	C00078	Common amino acids Essential amino acids	YES	YES	Amino Acids
1-Methyltryptophan	n/a	n/a	Other amino acids	YES	YES	Amino Acids
4-Acetamidobutanoic acid	HMD803681	C02946	Other amino acids	YES	YES	Amino Acids
5-Hydroxytryptophan	HMD800472	C01017	Other amino acids Tryptamines and derivatives	YES	YES	Amino Acids
Tryptophanamide	HMD813318	C00977	Other amino acids Tryptamines and derivatives	YES	YES	Amino Acids
N-acetyltryptophan	HMD813713	n/a	Other amino acids N-acyl-Alpha amino acids	YES	YES	Amino Acids
N-Acetylmethionine	HMD811745	C02712	Other amino acids N-acyl-Alpha amino acids	YES	YES	Amino Acids
N-Acetylphenylalanine	HMD800512	C03519	Other amino acids N-acyl-Alpha amino acids	YES	YES	Amino Acids
N-Acetylleucine	HMD811756	C02710	Other amino acids N-acyl-Alpha amino acids	YES	YES	Amino Acids
Kynurenine	HMD800684	C00328	Tryptophan Metabolites	YES	YES	Amino Acids
Creatine	HMD800064	C00300	Amino acids derivative	YES		Amino Acids
Creatinine	HMD800562	C00791	Amino acids derivative	YES		Amino Acids
Agmatine	HMD801432	C00179	Amino acids related compounds Amines	YES		Amino Acids
Aspartic acid	HMD800191	C00049	Common amino acids	YES		Amino Acids
Glutamine	HMD800641	C00064	Common amino acids	YES		Amino Acids
Alanine	HMD800161	C00041	Common amino acids	YES		Amino Acids
Asparagine	HMD800168	C00152	Common amino acids	YES		Amino Acids
Proline	HMD800162	C00148	Common amino acids Aromatic amino acids	YES		Amino Acids
Tyrosine	HMD800158	C00082	Common amino acids Aromatic amino acids	YES		Amino Acids
Lysine	HMD800182	C00047	Common amino acids Essential amino acids	YES		Amino Acids
Valine	HMD800883	C00183	Common amino acids Essential amino acids	YES		Amino Acids
Leucine	HMD800687	C00123	Common amino acids Essential amino acids	YES		Amino Acids
Isoleucine	HMD800172	C00407	Common amino acids Essential amino acids	YES		Amino Acids
Methionine	HMD800696	C00073	Common amino acids Essential amino acids	YES		Amino Acids
Cysteine	HMD800574	C00097	Common amino acids Methionine Cycle	YES		Amino Acids
Serine	HMD800187	C00065	Common amino acids One-carbon Metabolism	YES		Amino Acids
Arginine	HMD800517	C00062	Common amino acids Urea Cycle	YES		Amino Acids
Histidine	HMD800177	C00135	Common amino acids Essential amino acids	YES		Amino Acids
Threonine / Homoserine*	HMD800167	C00188	Common amino acids Essential amino acids	YES		Amino Acids
	HMD800719	C00263	Essential amino acids Common amino acids	YES		Amino Acids
Glycine	HMD800123	C00037	Common amino acids Neurotransmitters	YES		Amino Acids
Glutamic acid	HMD800148	C00025	Common amino acids Neurotransmitters	YES		Amino Acids
gamma-glutamylcysteine	HMD801049	C00669	Dipeptides Thiols / mercaptan	YES		Amino Acids
S-adenosylhomocysteine	HMD800939	C00021	Methionine Cycle	YES		Amino Acids

Taurine	HMDB00251	C00245	Methionine Cycle	YES	Amino Acids
3-Hydroxykynurenine	HMDB00732	C03227	n/a	YES	Amino Acids
Hypotaurine	HMDB00965	C00519	n/a	YES	Amino Acids
S-Carboxymethylcysteine	HMDB29415	C03727	n/a	YES	Amino Acids
N-Formylkynurenine	HMDB01200	C02700	n/a	YES	Amino Acids
Nalpa-Acetylasparagine	HMDB06028	n/a	N-acyl-alpha amino acids Other amino acids	YES	Amino Acids
Homocystine	HMDB00575	C01817	Other amino acids	YES	Amino Acids
Argininosuccinic acid	HMDB00052	C03406	Other amino acids	YES	Amino Acids
Cystathionine	HMDB00099	C02291	Other amino acids	YES	Amino Acids
Cystine	HMDB00192	C00491	Other amino acids	YES	Amino Acids
4-Hydroxyproline	HMDB00725	C01157	Other amino acids	YES	Amino Acids
Phosphoserine	HMDB01721	C01005	Other amino acids	YES	Amino Acids
5-Aminopentanoic acid	HMDB03355	C00431	Other amino acids	YES	Amino Acids
5-Hydroxylysine	HMDB00450	C16741	Other amino acids	YES	Amino Acids
2,3-Diaminopropionic acid	HMDB02006	C03401	Other amino acids	YES	Amino Acids
Homocitrulline	HMDB00679	C02427	Other amino acids	YES	Amino Acids
3-Aminoisobutyric acid	HMDB03911	C05145	Other amino acids	YES	Amino Acids
Guanidoacetic acid	HMDB00128	C00581	Other amino acids	YES	Amino Acids
Diaminopimelic acid	HMDB01370	C00666	Other amino acids	YES	Amino Acids
O-Succinylhomoserine	HMDB0255868	C01118	Other amino acids	YES	Amino Acids
Selenomethionine	HMDB03966	C05335	Other amino acids	YES	Amino Acids
Methionine sulfoximine	HMDB29430	C03510	Other amino acids	YES	Amino Acids
3-Methoxytyrosine	HMDB01434	n/a	Other amino acids	YES	Amino Acids
Dimethylglycine	HMDB00092	C01026	Other amino acids	YES	Amino Acids
Symmetric dimethylarginine	HMDB03334	C03626	Other amino acids	YES	Amino Acids
Sarcosine	HMDB00271	C00213	Other amino acids	YES	Amino Acids
Alpha-aminobutyric acid	HMDB00650	C02261	Other amino acids	YES	Amino Acids
N-methylglutamic Acid	HMDB62660	C01046	Other amino acids	YES	Amino Acids
1-Methylhistidine	HMDB00001	C01152	Other amino acids	YES	Amino Acids
Alpha-Aminoadipic acid / Threo-3-Methylglutamate*	HMDB00510	C00956	Other amino acids	YES	Amino Acids
Guanidosuccinic acid / N-Acetylaspartic acid*	HMDB03157 HMDB00812	n/a C03139 C01042	Other amino acids	YES	Amino Acids
NG-Methylarginine	HMDB29416	C03884	Other amino acids	YES	Amino Acids
Homoarginine	HMDB00670	C01924	Other amino acids	YES	Amino Acids
3-Methylhistidine	HMDB00479	C01152	Other amino acids	YES	Amino Acids
O-Acetylhomoserine	HMDB29423	C01077	Other amino acids	YES	Amino Acids
L-Glutamic acid 5-methyl ester	HMDB61715	n/a	Other amino acids	YES	Amino Acids
2-Aminoisobutyric acid	HMDB01906	C03665	Other amino acids	YES	Amino Acids
5-Oxoproline	HMDB00805	C02237	Other amino acids	YES	Amino Acids
Allo-isoleucine	HMDB00557	n/a	Other amino acids Branched Chain Amino Acids	YES	Amino Acids
Norleucine	HMDB01645	C01933	Other amino acids Branched Chain Amino Acids	YES	Amino Acids
3-Hydroxytrimethyllysine	HMDB01422	C01259	Other amino acids Carnitine Biosynthesis	YES	Amino Acids
Carnosine	HMDB00033	C00386	Other amino acids Dipeptides	YES	Amino Acids
N2-Acetyllysine	HMDB00446	C12989	Other amino acids N-acyl-alpha amino acids	YES	Amino Acids
Betaine	HMDB00043	C00719	Other amino acids One-carbon Metabolism	YES	Amino Acids
Homocysteine	HMDB00742	C00155	Other amino acids One-carbon Metabolism	YES	Amino Acids
Asymmetric dimethylarginine	HMDB01539	C03626	Other amino acids Oxidative Stress Biomarkers	YES	Amino Acids
Citrulline	HMDB00904	C00327	Other amino acids Urea Cycle	YES	Amino Acids
Ornithine	HMDB00214	C00077	Other amino acids Urea Cycle	YES	Amino Acids
Beta-Alanine	HMDB00056	C00099	Other amino acids Biogenic amines	YES	Amino Acids
Gamma-aminobutyric acid	HMDB00112	C00334	Other amino acids Biogenic amines	YES	Amino Acids
N-Acetylglutamic acid	HMDB01138	C00624	Other amino acids N-acyl-Alpha amino acids	YES	Amino Acids

N-Acetyl glycine	HMD800532	n/a	Other amino acids	YES	Amino Acids
N-Acetylserine	HMD802931	n/a	N-acyl-Alpha amino acids Other amino acids	YES	Amino Acids
N-Methylaspartic acid	HMD802393	C12269	Other amino acids Neurotransmitters	YES	Amino Acids
Methionine Sulfoxide	HMD802005	C02989	Oxidative Stress Biomarkers	YES	Amino Acids
3-Nitrotyrosine	HMD801904	n/a	Oxidative Stress Biomarkers	YES	Amino Acids
Glutathione	HMD800125	C00051	Coenzymes Methionine Cycle	YES	Amino Acids
S-adenosylmethionine	HMD801185	C00019	Coenzymes One-carbon Metabolism	YES	Amino Acids
Glutathione oxidized	HMD803337	C00127	Oxidative Stress Biomarkers	YES	Amino Acids
S-Hexylglutathione	n/a	n/a	Oxidative Stress Biomarkers	YES	Amino Acids
N-Formylmethionine	HMD801015	C03145	Other amino acids	YES	Amino Acids
N-Acetylcysteine	HMD801890	C06809	Other amino acids N-acyl-Alpha amino acids	YES	Amino Acids
Cholic acid	HMD800619	C00695	Primary bile acids	YES	Bile Acids
alpha-Muricholic acid / beta-Muricholic Acid*	HMD800506 HMD800865	C17647 C17726	Primary bile acids (rodents)	YES	Bile Acids
Glycocholic acid	HMD800138	C01921	Primary conjugated bile acids	YES	Bile Acids
Taurocholic acid	HMD800036	C05122	Primary conjugated bile acids	YES	Bile Acids
Lithocholic acid	HMD800761	C03990	Secondary bile acids	YES	Bile Acids
Deoxycholic acid / Chenodeoxycholic acid*	HMD800626 HMD800518	C04483 C02528	Secondary bile acids	YES	Bile Acids
Taurolithocholic acid	HMD800722	C02592	Secondary conjugated bile acids	YES	Bile Acids
Taurodeoxycholic acid / Taurochenodeoxycholic acid*	HMD800896 HMD800951	C05463 C05465	Secondary conjugated bile acids	YES	Bile Acids
Glycodeoxycholic acid / Glycochenodeoxycholic acid*	HMD800631 HMD800637	C05464 C05466	Secondary conjugated bile acids	YES	Bile Acids
Taurohyodeoxycholic acid / Tauroursodeoxycholic acid*	n/a HMD800874	n/a n/a	Secondary conjugated bile acids / Tertiary conjugated bile acids	YES	Bile Acids
Ursodeoxycholic acid / Hyodeoxycholic acid*	HMD800946 HMD800733	C07880 C15517	Tertiary bile acids / Secondary bile acids	YES	Bile Acids
Glycoursodeoxycholic acid	HMD800708	n/a	Tertiary conjugated bile acids	YES	Bile Acids
Ethylmalonic acid	HMD800622	n/a	Branched fatty acids	YES	Fatty Acids
10-Hydroxydecanoic acid	HMD80244272	C02774	Medium chain fatty acids (6-12)	YES	Fatty Acids
Azelaic acid	HMD800784	C08261	Medium chain fatty acids (6-12) Dicarboxylic acids	YES	Fatty Acids
Suberic acid	HMD800893	C08278	Medium chain fatty acids (6-12) Dicarboxylic acids	YES	Fatty Acids
Adipic acid	HMD800448	C06104	Medium chain fatty acids (6-12) Dicarboxylic acids	YES	Fatty Acids
2-Hydroxybutyric acid	HMD800008	C05984	Short Chain Fatty acids (SCFA<6)	YES	Fatty Acids
Ketoisoleucine	HMD800491	C03465	Short Chain Fatty acids (SCFA<6)	YES	Fatty Acids
Ketoleucine	HMD800695	C00233	Short Chain Fatty acids (SCFA<6) 2-Oxocarboxylic acids	YES	Fatty Acids
Arachidonic Acid (C20:4n-6,9,12,15)	HMD801043	C00219	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
3-Hydroxybutyric acid	HMD800357	C01089	Short Chain Fatty acids (SCFA<6)	YES	Fatty Acids
Eicosapentaenoic Acid (C20:5n-3,6,9,12,15)	HMD801999	C06428	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Lipoic acid	HMD801451	C00725	Medium chain fatty acids (6-12) Coenzymes	YES	Fatty Acids
2-Methylglutaric acid	HMD800422	n/a	Methyl-branched fatty acids	YES	Fatty Acids
Mead acid (C20:3n-9,12,15)	HMD810378	C21938	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
omega-6-Docosapentaenoic acid (C22:5n-6,9,12,15,18)	HMD801976	C16513	Very long chain fatty acids (>22) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Adrenic acid (C22:4n-6,9,12,15)	HMD802226	C16527	Very long chain fatty acids (>22) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Elaidic acid (C18:1n-9)	HMD800573	C01712	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
Erucic acid (C22:1n-9)	HMD802068	C08316	Very long chain fatty acids (>22) Monounsaturated fatty acids	YES	Fatty Acids
omega-3-Arachidonic acid (C20:4n-3,6,9,12)	HMD802177	n/a	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
alpha-Linolenic acid (C18:3n-3,6,9)	HMD801388	C06427	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
dihomo-gamma-Linolenic acid (C20:3n-6,9,12)	HMD802925	C03242	Very long chain fatty acids (>22) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Heptanoic acid (C7:0)	HMD800666	C17714	Medium chain fatty acids (6-12) Saturated fatty acids	YES	Fatty Acids
Oleic acid (C18:1n-9)	HMD800207	C00712	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
Myristoleic acid (C14:1n-5)	HMD802000	C08322	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
omega-3-Docosapentaenoic acid (C22:5n-3,6,9,12,15)	HMD806528	n/a	Very long chain fatty acids (>22) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Caprylic acid (C8:0)	HMD800482	C06423	Medium chain fatty acids (6-12) Saturated fatty acids	YES	Fatty Acids
Myristic acid (C14:0)	HMD800806	C06424	Long chain fatty acids (14-20) Saturated fatty acids	YES	Fatty Acids
Arachidic acid (C20:0)	HMD802212	C06425	Long chain fatty acids (14-20) Saturated fatty acids	YES	Fatty Acids

Linoleic acid (C18:2n-6,9)	HMD800673	C01595	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Behenic acid (C22:0)	HMD800944	C08281	Very long-chain fatty acids (>22) Saturated fatty acids	YES	Fatty Acids
cis-Vaccenic acid (C18:1n-7)	HMD80240219	C21944	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
cis-Petroselinic acid (C18:1n-12)	HMD802080	C08363	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
cis-Palmitoleic acid (C16:1n-7)	HMD803229	C08362	Long chain fatty acids (14-20) Monounsaturated fatty acids	YES	Fatty Acids
Docosahexaenoic acid (C22:6n-3,6,9,12,15,18)	HMD802183	C06429	Very long chain fatty acids (>22) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Stearic acid (C18:0)	HMD800827	C01530	Long chain fatty acids (14-20) Saturated fatty acids	YES	Fatty Acids
Nervonic acid (C24:1n-9)	HMD802368	C08323	Very long chain fatty acids (>22) Monounsaturated fatty acids	YES	Fatty Acids
Capric acid (C10:0)	HMD800511	C01571	Medium chain fatty acids (6-12) Saturated fatty acids	YES	Fatty Acids
Lignoceric acid (C24:0)	HMD802003	C08320	Very long chain fatty acids (>22) Saturated fatty acids	YES	Fatty Acids
Palmitic acid (C16:0)	HMD800220	C00249	Long chain fatty acids (14-20) Saturated fatty acids	YES	Fatty Acids
Lauric acid (C12:0)	HMD800638	C02679	Medium chain fatty acids (6-12) Saturated fatty acids	YES	Fatty Acids
gamma-Linolenic acid (C18:3n-6,9,12)	HMD803073	C06426	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Dihomolinoleic acid (C20:2n-6,9)	HMD805060	C16525	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Stearidonic acid (C18:4n-3,6,9,12)	HMD806547	C16300	Long chain fatty acids (14-20) Polyunsaturated fatty acids (PUFA)	YES	Fatty Acids
Thyrotropin releasing hormone	HMD860080	C03958	Bioactive peptides Peptide hormones	YES	Hormones / Steroids
3,5-Diiodothyronine	HMD800582	n/a	Other amino acids Thyroid hormones	YES	Hormones / Steroids
Levodopa	HMD800181	C00355	Other amino acids Neurotransmitters	YES	Hormones / Steroids
3,5-Diiodotyrosine	HMD803474	C01060	Other amino acids Thyroid Hormones	YES	Hormones / Steroids
Cortisol	HMD800063	C00735	Steroids 21-Carbon atoms	YES	Hormones / Steroids
Hydrocortisone 21-acetate	n/a	C02821	Corticosteroid Glucocorticoid	YES	Hormones / Steroids
Epandrosterone sulfate	HMD862657	n/a	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Androsterone / Epiandrosterone*	HMD800031 HMD800365	C00523 C07635	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Dihydrotestosterone	HMD802961	C03917	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
6b-Hydroxytestosterone	HMD806259	C14497	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estradiol-17-glucuronide	HMD810317	C11237	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estrone-3-glucuronide	HMD804483	C11133	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
2-Methoxyestradiol	HMD800405	C05302	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estril-3-Glucuronide	HMD810335	C11288	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estrone	HMD800145	C00468	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
2-Hydroxyestrone / 4-Hydroxyestrone*	HMD800343 HMD805895	C05298 n/a	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
2-Hydroxyestradiol / 4-Hydroxyestradiol*	HMD800338 HMD805896	C05301 C14209	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
2-Methoxyestrone / 4-Methoxyestrone*	HMD800010 HMD860088	C05299 n/a	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estradiol / Epiestradiol*	HMD800151 HMD800429	C00951 C02537	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
16a-hydroxyestrone / 16-Ketoestradiol*	HMD800335 HMD800406	C05300 C14383	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Estril	HMD800153	C05141	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
17a-Hydroxyprogesterone / 11b-Hydroxyprogesterone*	HMD800374 HMD804031	C01176 C05498	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Androstenedione	HMD800053	C00280	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
11b-Hydroxyandrostenedione	HMD806773	C05284	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Epitestosterone	HMD800628	n/a	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Androstenedione	HMD800899	C00674	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Testosterone	HMD800234	C00535	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Dehydroepiandrosterone	HMD800077	C01227	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Dehydroepiandrosterone Sulfate	HMD801032	C04555	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Progesterone	HMD801830	C00410	MDC Sex Hormones Assay Steroid hormones	YES	Hormones / Steroids
Pimelic acid	HMD800857	C02656	Dicarboxylic acids	YES	Organic Acids
Protocatechuic acid	HMD801856	C00230	Flavonoids	YES	Organic Acids
Indoleacetic acid	HMD800197	C00954	Indole alkaloids	YES	Organic Acids
3-Hydroxymethylglutaric acid	HMD800355	C03761	n/a	YES	Organic Acids
3-Hydroxyanthranilic acid	HMD801476	C00632	n/a	YES	Organic Acids
Hippuric acid	HMD800714	C01586	n/a	YES	Organic Acids

4-Aminobenzoic acid	HMDB01392	C00568	n/a	YES	YES	Organic Acids
2-Aminophenol	n/a	C01987	n/a	YES	YES	Organic Acids
Anthranilic acid	HMDB01123	C00108	n/a	YES	YES	Organic Acids
Vanillylmandelic acid	HMDB00291	C05584	n/a	YES	YES	Organic Acids
Hydroxyphenyllactic acid	HMDB00755	C03672	n/a	YES	YES	Organic Acids
Pyrrole-2-carboxylic acid	HMDB04230	C05942	n/a	YES	YES	Organic Acids
5-Hydroxyindoleacetic acid	HMDB00763	C05635	n/a	YES	YES	Organic Acids
2-Isopropylmalic acid	HMDB00402	C02504	n/a	YES	YES	Organic Acids
3-Indolepropionic acid	HMDB02302	n/a	n/a	YES	YES	Organic Acids
4-Pyridoxic acid	HMDB00017	C00847	n/a	YES	YES	Organic Acids
2-Hydroxyphenylacetic acid	HMDB00669	C05852	n/a	YES	YES	Organic Acids
Gentisic acid	HMDB00152	C00628	n/a	YES	YES	Organic Acids
2-Pyrocatechuic acid	HMDB00397	C00196	n/a	YES	YES	Organic Acids
Mandelic acid	HMDB00703	C01984	n/a	YES	YES	Organic Acids
3-Hydroxyphenylacetic acid	HMDB00440	C05593	n/a	YES	YES	Organic Acids
3-Methylglutaric acid	HMDB00752	n/a	n/a	YES	YES	Organic Acids
Kynurenic acid	HMDB00715	C01717	n/a	YES	YES	Organic Acids
8-Hydroxyquinaldic acid	n/a	n/a	n/a	YES	YES	Organic Acids
Caffeic acid	HMDB01964	C01197	Phenylpropanoids Monolignols	YES	YES	Organic Acids
Ferulic acid	HMDB00954	C01494	Phenylpropanoids Monolignols	YES	YES	Organic Acids
Pantothenic acid	HMDB00210	C00864	Water-soluble Vitamin	YES	YES	Organic Acids
Alpha-ketoglutaric acid	HMDB00208	C00026	2-Oxocarboxylic acids TCA Cycle	YES		Organic Acids
Pyruvic acid	HMDB00243	C00022	2-Oxocarboxylic acids Glycolysis Pathway	YES		Organic Acids
Glutaric acid	HMDB00661	C00489	Dicarboxylic acids	YES		Organic Acids
Succinic acid	HMDB00254	C00042	Dicarboxylic acids TCA Cycle	YES		Organic Acids
Lactic acid	HMDB00190	C00186	Hydroxycarboxylic acids TCA Cycle	YES		Organic Acids
Malic acid	HMDB00744	C00149	Hydroxycarboxylic acids TCA Cycle	YES		Organic Acids
Picolinic acid	HMDB02243	C10164	n/a	YES		Organic Acids
Maleic acid	HMDB00176	C01384	n/a	YES		Organic Acids
4-Imidazoleacetic acid	HMDB02024	C02835	n/a	YES		Organic Acids
Quinic acid	HMDB03072	C06746	n/a	YES		Organic Acids
Orthanilic acid	HMDB0304940	C06333	n/a	YES		Organic Acids
Citramalic acid	HMDB00426	C00815	n/a	YES		Organic Acids
Cinnabarinic Acid	HMDB04078	C05640	n/a	YES		Organic Acids
Melilotic acid	HMDB33752	C01198	n/a	YES		Organic Acids
Indolepyruvic acid	HMDB60484	C00331	n/a	YES		Organic Acids
Itaconic acid	HMDB02092	C00490	n/a	YES		Organic Acids
Xanthurenic acid	HMDB00881	C02470	n/a	YES		Organic Acids
Isoorotic acid	n/a	C03030	n/a	YES		Organic Acids
4-Quinolincarboxylic acid	HMDB0257047	C06414	n/a	YES		Organic Acids
2-Quinolincarboxylic acid	HMDB00842	C06325	n/a	YES		Organic Acids
trans-Urocanic acid	HMDB00301	C00785	n/a	YES		Organic Acids
cis-Urocanic acid	n/a	n/a	n/a	YES		Organic Acids
Isocitric acid lactone	HMDB0341313	n/a	n/a	YES		Organic Acids
Pipecolic acid	HMDB00070	C00408	n/a	YES		Organic Acids
Ophthalmic acid	HMDB05765	C21016	Peptides	YES		Organic Acids
Fumaric acid	HMDB00134	C00122	TCA Cycle	YES		Organic Acids
2-Hydroxyglutaric Acid	HMDB59655	C02630	TCA Cycle	YES		Organic Acids
Oxaloacetic acid	HMDB00223	C00036	TCA Cycle 2-Oxocarboxylic acids	YES		Organic Acids
Trans-aconitic acid	HMDB00958	C02341	Tricarboxylic acids	YES		Organic Acids
Aconitic acid	HMDB00072	C00417	Tricarboxylic acids	YES		Organic Acids

Isocitric acid	HMD800193	C00311	Tricarboxylic acids TCA Cycle	YES		Organic Acids
Citric acid	HMD800094	C00158	Tricarboxylic acids TCA Cycle	YES		Organic Acids
Ascorbic acid	HMD800044	C00072	Water-soluble Vitamin	YES		Organic Acids
3,4-dihydroxyphenylacetic acid	HMD801336	C01161	Catecholamines & Metabolites Flavonoids		YES	Organic Acids
Malonic acid	HMD800691	C00383	Dicarboxylic acids		YES	Organic Acids
Methylmalonic acid	HMD800202	C02170	Dicarboxylic acids		YES	Organic Acids
4-Hydroxybenzoic acid	HMD800500	C00156	Flavonoids		YES	Organic Acids
Mevalonic acid 5-diphosphate	HMD801090	C01143	Mevalonate Pathway		YES	Organic Acids
Mevalonic acid	HMD800227	C00418	Mevalonate Pathway Cholesterol Biosynthesis		YES	Organic Acids
Monomethyl glutaric acid	HMD800858	n/a	n/a		YES	Organic Acids
3-Amino-2-hydroxybenzoic acid	HMD801972	n/a	n/a		YES	Organic Acids
Phthalic acid	HMD802107	C01606	n/a		YES	Organic Acids
Salicylic acid	HMD801895	C00805	n/a		YES	Organic Acids
3-Hydroxybenzoic acid	HMD802466	C00587	n/a		YES	Organic Acids
9-Anthroic acid	HMD80248461	C13699	n/a		YES	Organic Acids
Homogentisic acid	HMD800130	C00544	n/a		YES	Organic Acids
Phenylpyruvic acid	HMD800205	C00166	n/a		YES	Organic Acids
3-Phosphoglyceric acid	HMD800807	C00197	n/a		YES	Organic Acids
4-Hydroxycinnamic acid	HMD802035	C00811	Phenylpropanoids Monolignols		YES	Organic Acids
trans-Cinnamic acid	HMD800930	C00423	Phenylpropanoids Monolignols		YES	Organic Acids
Dihydrofolic acid	HMD801056	C00415	Water-soluble Vitamin		YES	Organic Acids
Flavin adenine dinucleotide	HMD801248	C00016	Coenzymes Flavins	YES	YES	Other
4-Ethylphenyl sulfate	HMD862551	n/a	Microbiome	YES	YES	Other
Indoxyl sulfate	HMD800682	n/a	n/a	YES	YES	Other
Indole-3-ethanol	HMD803447	C00955	n/a	YES	YES	Other
Lipoamide	HMD800962	C00248	n/a	YES	YES	Other
Dethiobiotin	HMD803581	C01909	n/a	YES	YES	Other
Salicylamide	HMD815687	n/a	n/a	YES	YES	Other
Indoleacetaldehyde	HMD801190	C00637	n/a	YES	YES	Other
6-Hydroxymelatonin	HMD804081	C05643	n/a	YES	YES	Other
3-Indoleacetamide	HMD829739	C02693	n/a	YES	YES	Other
4-Hydroxybenzaldehyde	HMD811718	C00633	n/a	YES	YES	Other
Biotin	HMD800030	C00120	Water-soluble Vitamin Coenzymes	YES	YES	Other
Riboflavin	HMD800244	C00255	Water-soluble Vitamin Flavins	YES	YES	Other
Pyridoxal	HMD801545	C00250	Water-soluble vitamins	YES	YES	Other
Flavin mononucleotide	HMD801520	C00061	Coenzymes Flavins	YES		Other
Salsolinol	HMD805199	C09642	Isoquinoline alkaloids	YES		Other
Nicotinamide adenine dinucleotide	HMD800902	C00003	MDC NAD Assay Coenzymes	YES		Other
Nicotinamide mononucleotide	HMD800229	C00455	NAD Metabolites	YES		Other
Nicotinic acid	HMD801488	C00253	NAD Metabolites Water-soluble vitamins	YES		Other
Nicotinamide	HMD801406	C00153	NAD Metabolites Water-soluble vitamins	YES		Other
2-Hydroxypyridine	HMD813751	C02502	n/a	YES		Other
Pseudouridine	HMD800767	C02067	n/a	YES		Other
Allantoin	HMD800462	C01551	n/a	YES		Other
3-Methylhistamine	HMD801861	n/a	n/a	YES		Other
Desmeninol	HMD837115	n/a	n/a	YES		Other
Glucuronolactone	HMD806355	C02670	n/a	YES		Other
Gluconolactone	HMD800150	C00198	n/a	YES		Other
Thiourea	HMD834155	C14415	n/a	YES		Other
Methylguanidine	HMD801522	C02294	n/a	YES		Other
3,4-dihydroxy-benzeneacetaldehyde	HMD803791	C04043	n/a	YES		Other

Nicotinamide hypoxanthine dinucleotide	n/a	C04423	n/a	YES		Other
6-Hydroxydopamine	HMDB01537	n/a	n/a	YES		Other
Octopamine	HMDB04825	C04227	n/a	YES		Other
3-Hydroxybenzaldehyde	n/a	C03067	n/a	YES		Other
Lumichrome	HMDB0254199	C01727	n/a	YES		Other
Pterin	HMDB00802	C00715	n/a	YES		Other
Glucosamine 6-phosphate	HMDB01254	C00352	n/a	YES		Other
3-Ureidopropionic acid	HMDB00026	C02642	n/a	YES		Other
2-Methylnicotinamide	HMDB59711	n/a	n/a	YES		Other
N-Methylnicotinamide	HMDB03152	n/a	n/a	YES		Other
1-Methylnicotinamide	HMDB00699	C02918	n/a	YES		Other
3,4-Dihydroxybenzylamine	HMDB12153	n/a	n/a	YES		Other
Ciliatine	HMDB11747	C03557	Organic phosphonic acids Secondary metabolites	YES		Other
Phosphoethanolamine	HMDB00224	C00346	Phosphoethanolamines	YES		Other
Pyridoxine	HMDB00239	C00314	Water-soluble Vitamin	YES		Other
Pyridoxamine	HMDB01431	C00534	Water-soluble vitamins	YES		Other
Acetyl Coenzyme A	HMDB01206	C00024	Acyl CoAs NAD Metabolites TCA Cycle		YES	Other
Biliverdin	HMDB01008	C00500	Heme catabolism		YES	Other
Bilirubin	HMDB00054	C00486	Heme catabolism		YES	Other
Nicotinic acid adenine dinucleotide	HMDB01179	C00857	MDC NAD Assay NAD metabolite		YES	Other
Gallacetophenone	HMDB0341319	n/a	n/a		YES	Other
5-Methylthioadenosine	HMDB01173	C00170	n/a		YES	Other
Mevalonolactone	HMDB06024	n/a	n/a		YES	Other
Pyrocatechol	HMDB00957	C00090	n/a		YES	Other
4-Methylcatechol	HMDB00873	C06730	n/a		YES	Other
Indole-3-methyl acetate	HMDB29738	n/a	n/a		YES	Other
Dihyronicotinamide adenine dinucleotide	HMDB01487	C00004	TCA Cycle NAD Metabolites		YES	Other
5-Methylcytosine	HMDB02894	C02376	Pyrimidine derivatives	YES	YES	Purines/Pyrimidines
Cyclic cytidine 2,3-monophosphate	HMDB11691	n/a	2',3'-cyclic pyrimidine nucleotides	YES		Purines/Pyrimidines
Cyclic guanosine 3,5-monophosphate	HMDB01314	C00942	3',5'-cyclic purine nucleotides	YES		Purines/Pyrimidines
2-Deoxyguanosine	HMDB00085	C00330	Purine deoxyribonucleosides	YES		Purines/Pyrimidines
5-Deoxyadenosine	HMDB01983	C05198	Purine deoxyribonucleosides	YES		Purines/Pyrimidines
2-Deoxyadenosine 5-monophosphate	HMDB00905	C00360	Purine deoxyribonucleotides	YES		Purines/Pyrimidines
Guanine	HMDB00132	C00242	Purine derivatives	YES		Purines/Pyrimidines
7-Methylguanine	HMDB00897	C02242	Purine derivatives	YES		Purines/Pyrimidines
Uric acid	HMDB00289	C00366	Purine derivatives	YES		Purines/Pyrimidines
Xanthine	HMDB00292	C00385	Purine derivatives	YES		Purines/Pyrimidines
Thiopurine S-methylether	HMDB60412	C16614	Purine derivatives	YES		Purines/Pyrimidines
Purine	HMDB01366	C15587	Purine derivatives	YES		Purines/Pyrimidines
3-Methyladenine	HMDB11600	C00913	Purine derivatives	YES		Purines/Pyrimidines
Hypoxanthine	HMDB00157	C00262	Purine derivatives	YES		Purines/Pyrimidines
Adenine	HMDB00034	C00147	Purine derivatives	YES		Purines/Pyrimidines
Adenosine	HMDB00050	C00212	Purine nucleosides	YES		Purines/Pyrimidines
Inosine	HMDB00195	C00294	Purine nucleosides	YES		Purines/Pyrimidines
1-Methyladenosine	HMDB03331	C02494	Purine nucleosides	YES		Purines/Pyrimidines
Xanthosine	HMDB00299	C01762	Purine nucleosides Purine alkaloids	YES		Purines/Pyrimidines
Adenylsuccinic acid	HMDB00536	C03794	Purine nucleotides	YES		Purines/Pyrimidines
Guanosine 5-monophosphate	HMDB01397	C00144	Purine nucleotides	YES		Purines/Pyrimidines
2-Inosine 5-monophosphate	HMDB00175	C00130	Purine nucleotides	YES		Purines/Pyrimidines
Inosine 5-diphosphate	HMDB03335	C00104	Purine nucleotides	YES		Purines/Pyrimidines
Adenosine 5-monophosphate	HMDB00045	C00020	Purine nucleotides TCA Cycle	YES		Purines/Pyrimidines

Quinolinic acid	HMDB00232	C03722	Pyridinecarboxylic acids NAD Metabolites	YES	Purines/Pyrimidines
Dihydroorotic acid	HMDB03349	C00337	Pyrimidine Biosynthesis	YES	Purines/Pyrimidines
Ureidosuccinic acid	HMDB00828	C00438	Pyrimidine Biosynthesis	YES	Purines/Pyrimidines
Thymidine	HMDB00273	C00214	Pyrimidine deoxyribonucleosides	YES	Purines/Pyrimidines
2-Deoxycytidine	HMDB00014	C00881	Pyrimidine deoxyribonucleosides	YES	Purines/Pyrimidines
2-Deoxycytidine 5-monophosphate	HMDB01202	C00239	Pyrimidine deoxyribonucleotides	YES	Purines/Pyrimidines
Cytosine	HMDB00630	C00380	Pyrimidine derivatives	YES	Purines/Pyrimidines
Orotic acid	HMDB00226	C00295	Pyrimidine derivatives	YES	Purines/Pyrimidines
Thymine	HMDB00262	C00178	Pyrimidine derivatives	YES	Purines/Pyrimidines
Thiamine monophosphate	HMDB02666	C01081	Pyrimidine derivatives Mevalonate Pathway	YES	Purines/Pyrimidines
Uracil	HMDB00300	C00106	Pyrimidine derivatives Pyrimidine Biosynthesis	YES	Purines/Pyrimidines
Cytidine	HMDB00089	C00475	Pyrimidine nucleosides	YES	Purines/Pyrimidines
5-Methylcytidine	HMDB00982	n/a	Pyrimidine nucleosides	YES	Purines/Pyrimidines
5-Methyluridine	HMDB00884	n/a	Pyrimidine nucleosides	YES	Purines/Pyrimidines
Uridine	HMDB00296	C00299	Pyrimidine nucleosides Pyrimidine Biosynthesis	YES	Purines/Pyrimidines
Cytidine 5-monophosphate	HMDB00095	C00055	Pyrimidine nucleotides	YES	Purines/Pyrimidines
Citicoline	HMDB01413	C00307	Pyrimidine nucleotides	YES	Purines/Pyrimidines
Thymidine 5-monophosphate	HMDB01227	C00364	Pyrimidine nucleotides	YES	Purines/Pyrimidines
Orotidine	HMDB00788	n/a	Pyrimidine nucleotides Pyrimidine Biosynthesis	YES	Purines/Pyrimidines
Guanosine	HMDB00133	C00387	Purine nucleosides	YES	Purines/Pyrimidines
Cyclic adenosine 2,3-monophosphate / Cyclic adenosine 3,5-monophosphate*	HMDB11616 HMDB00058	C02353 C00575	2',3'-cyclic purine nucleotides TCA Cycle	YES	Purines/Pyrimidines
Cyclic adenosine diphosphate-ribose	HMDB0249529	n/a	2',3'-cyclic purine nucleotides TCA Cycle	YES	Purines/Pyrimidines
N-Acetylgalactosamine / N-Acetylmannosamine / N-Acetylglucosamine*	HMDB00212 HMDB01129	C01074 C00645	Amino Sugars	YES	Sugars
Galactosamine / Glucosamine / Mannosamine*	HMDB0341150 HMDB01514	C02262 C00329	Amino Sugars	YES	Sugars
Gluconic acid	HMDB00625	C00257	Sugar acids	YES	Sugars
Glucosaminic acid	HMDB0341308	C03752	Sugar acids	YES	Sugars
Galactitol	HMDB00107	C01697	Sugar Alcohols	YES	Sugars
Ribitol	HMDB00508	C00474	Sugar alcohols	YES	Sugars