



LC-MS Core Lab
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1. LC-MS/MS analysis list of bile acids

ID	Abbreviation	Name
1	12keto_LCA	12-keto-Deoxycholic acid
2	3Keto,7a,12a(OH)2	7 α ,12 α -dihydroxy-3-keto-5 β -cholanoic acid
3	3KetoLCA	3-Keto-5 β -cholanic acid
4	7keto_DCA	7-keto-Deoxycholic acid
5	7keto_LCA	7-keto-Lithocholic acid
6	allo_isoLCA	3 β -Hydroxy-5 α -cholan-24-oic acid
7	α MCA	α -Muricholic acid
8	β MCA	β -Muricholic acid
9	CA	Cholic acid
10	CDCA	Chenodeoxycholic acid
11	DCA	Deoxycholic acid
12	G β MCA	Glycine- β -muricholic acid
13	GCA	Glycocholic acid
14	GCDCA	Glycochenodeoxycholic acid
15	GDCA	Glycodeoxycholic acid
16	GHCA	Glycohyocholic acid
17	GHDCA	Glycohyodeoxycholic acid
18	GLCA	Glycolithocholic acid
19	GUDCA	Glycoursodeoxycholic acid
20	HCA	Hyocholic acid
21	HDCA	Hyodeoxycholic acid
22	isoDCA	Isochoxycholic acid
23	isoLCA	Isolithocholic acid
24	LCA	Lithocholic acid
25	MDCA	Murideoxycholic acid
26	T α MCA	Tauro-a-muricholic acid
27	T β MCA	Tauro-b-muricholic acid
28	TCA	Taurocholic acid
29	TCDCA	Taurochenodeoxycholic acid
30	TDCA	Taurodeoxycholic acid
31	THDCA	Taurohyodeoxycholic acid
32	TLCA	Tauroolithocholic acid

33	TUDCA	Tauroursodeoxycholic acid
34	T ω MCA	Taurine-conjugated ω -muricholic acid
35	UDCA	Ursodeoxycholic acid
36	ω MCA	ω -Muricholic acid
37	CA-3-S	Cholic acid 3-sulfate
38	LCA-3-S	Lithocholic acid 3-sulfate
39	UDCA-3-S	Ursodeoxycholic acid 3-sulfate
40	DCA-3-S	Deoxycholic acid 3-sulfate
41	CDCA-3-S	Chenodeoxycholic acid 3-sulfate
42	CA-7-S	Cholic acid 7-sulfate

2. LC-MS/MS analysis list of short chain fatty acids

ID	Compound Name
1	Acetic acid
2	Propionic acid
3	Isobutyric acid
4	Butyric acid
5	2-methylbutyric acid
6	Isovaleric acid
7	Valeric acid
8	Isocaproic acid
9	Hexanoic acid

3. LC-MS/MS analysis list of sphingolipids

ID	Abbreviation	Compound Name
1	3KDHS	3-keto-dihydrosphingosine
2	S-d18-1	sphingosine
3	S-d18-0	Dihydrosphingosine
4	S1P-d18-1	Sphingosine-1-Phosphate (d18:1)
5	S1P-d18-0	Sphinganine-1-Phosphate (d18:0)
6	C12 Cer	N-lauroyl-D-erythro-sphingosine
7	C14 Cer	N-myristoyl-D-erythro-sphingosine
8	C16 Cer	N-palmitoyl-D-erythro-sphingosine (d18:2(4E,8Z) base)
9	C16DHC	C16 Dihydroceramide
10	C18-1 Cer	N-oleoyl-D-erythro-sphingosine
11	C18-0 Cer	N-stearoyl-D-erythro-sphingosine
12	C18-1DHC	C18:1 Dihydroceramide
13	C18DHC	C18 Dihydroceramide

14	C20 Cer	N-arachidoyl-D-erythro-sphingosine
15	C22 Cer	N-behenoyl-D-erythro-sphingosine
16	C24-0 Cer	N-lignoceroyl-D-erythro-sphingosine (d18:2(4E,8Z) base)
17	C24-1 Cer	N-nervonoyl-D-erythro-sphingosine
18	C24-1DHC	C24:1 Dihydroceramide
19	C24DHC	C24 Dihydroceramide
20	C26 Cer	C26-Ceramide
21	C16-SM	C16 Sphingomyelin
22	GLUC	Glucosyl ceramide
23	C17-SM	C17 Sphingomyelin
24	C18-SM	C18 Sphingomyelin
25	C20-SM	C20 Sphingomyelin
26	C22-SM	C22 Sphingomyelin
27	C26-1SM	C26:1 Sphingomyelin
28	C26-SM	C26 Sphingomyelin

4. LC-MS/MS analysis list of cholesterol

ID	Compound Name	Abbreviation
1	7-Hydroxy Cholesterol	7aHC
2	7-keto Cholesterol	7KC
3	25-hydroxycholesterol	25HC
4	27-hydroxycholesterol	27HC
5	7a, 25-Dihydroxycholesterol	7a25DHC
6	24S-Hydroxycholesterol	24SHC
7	7a, 24(s)-dihydroxycholesterol	7a24DHC
8	7a, 27-Dihydroxycholesterol	7a27DHC
9	22R-hydroxycholesterol	22HC
10	5,6 alpha epoxy cholesterol	56a-EHC
11	5,6 beta epoxy cholesterol	56b-EHC
12	24,25 epoxy cholesterol	24-25-EHC
13	4-beta hydroxy cholesterol	4b-HC
14	Desmosterol	DESM
15	7/8-dehydro Cholesterol	7DHC
16	Cholesterol	CH
17	Lathosterol	Lath
18	Lanosterol	Lan

5. LC-MS/MS analysis list of NAD+

ID	Compound Name	Abbreviation
1	Nicotinamide adenine dinucleotide	NAD ⁺
2	nicotinamide adenine dinucleotide hydride	NADH
3	nicotinamide adenine dinucleotide phosphate hydrogen	NADP
4	Nicotinamide adenine dinucleotide phosphate	NADPH
5	Cyclic adenosine monophosphate	cAMP
6	cyclic guanosine 3 ,5 -monophosphate	cGMP
7	Adenosine monophosphate	AMP
8	Adenosine diphosphate	ADP
9	Adenosine triphosphate	ATP

6. LC-MS/MS analysis list of other analytes

ID	Compound Name
1	CBD
2	Δ -9-THC
3	Δ -8-THC
4	Berberine
5	Mogroside V
6	Riboflavin
7	Lumichrome
8	Cyclo(L-Phe-L-Pro)
9	Cyclo(L-Leu-L-Pro)
10	IsoLCA
11	AlloLCA

We can also provide the following services.

Perform compound identification and impurity analysis with LC-MS/UV (SPD-40 UV detector)

Set up new analytical methods for new analytes and perform quantitative analysis in complex matrices with LC-MS/MS.

If you have any questions/need services, please contact:

valcmlab@gmail.com