

Supplemental Table S1 (Appendix)

Abbreviations and corresponding trivial names of the Fatty acid-bile acid esters, fatty acids, and bile acids used in this study.

Abbreviations	Trivial names	Structure Lipid Maps ID
Fatty acid-bile acid ester		
Ac-isoLCA	3 β -acetoxy-5 β -cholanoic acid	
Pam-isoLCA	3 β -hexadecanoyloxy-5 β -cholanoic acid	
Ste-isoLCA	3 β -octadecanoyloxy-5 β -cholanoic acid	
Ole-isoLCA	3 β -(9-cis-octadecenoyloxy)-5 β -cholanoic acid	
Lin-isoLCA	3 β -(9-cis,12-cis-octadecadienoyloxy)-5 β -cholanoic acid	
Ac-isoDCA	3 β -acetoxy-12 α -hydroxy-5 β -cholanoic acid	
Pam-isoDCA	3 β -hexadecanoyloxy-12 α -hydroxy-5 β -cholanoic acid	
Ste-isoDCA	3 β -octadecanoyloxy-12 α -hydroxy-5 β -cholanoic acid	
Ole-isoDCA	3 β -(9-cis-octadecenoyloxy)-12 α -hydroxy-5 β -cholanoic acid	
Lin-isoDCA	3 β -(9-cis,12-cis-octadecadienoyloxy)-12 α -hydroxy-5 β -cholanoic acid	
Ac-LCA	3 α -acetoxy-5 β -cholanoic acid	
Ste-LCA	3 α -octadecanoyloxy-5 β -cholanoic acid	
Ste-DCA	3 α -octadecanoyloxy-12 α -hydroxy-5 β -cholanoic acid	
Fatty acid		
Palmitic acid	hexadecanoic acid	LMFA01010001
Stearic acid	octadecanoic acid	LMFA01010018
Oleic acid	9-cis-Octadecenoic acid	LMFA01030002
Linoleic acid	9-cis,12-cis-Octadecadienoic acid	LMFA01030120
Bile acid		
CA	cholic acid	LMST04010001
alloCA	3 α ,7 α ,12 α -trihydroxy-5 α -cholanoic acid	LMST04010092
isoCA	3 β ,7 α ,12 α -trihydroxy-5 β -cholanoic acid	LMST04010086
3-oxo-CA	7 α ,12 α -dihydroxy-3-oxo-5 β -cholanic acid	LMST04010443
7-oxo-DCA	3 α ,12 α -dihydroxy-7-oxo-5 β -cholanoic acid	LMST04010184
12-oxo-CDCA	3 α ,7 α -dihydroxy-12-oxo-5 β -cholanic acid	LMST04010180
UCA	3 α ,7 β ,12 α -trihydroxy-5 β -cholanoic acid	LMST04010088
isoUCA	3 β ,7 β ,12 α -trihydroxy-5 β -cholanoic acid	LMST04010090
HCA	3 α ,6 α ,7 α -trihydroxy-5 β -cholanoic acid	LMST04010064
CDCA	chenodeoxycholic acid	LMST04010032
alloCDCA	3 α ,7 α -dihydroxy-5 α -cholanoic acid	LMST04010036
isoCDCA	3 β ,7 α -dihydroxy-5 β -cholanoic acid	LMST04010034

3-oxo-CDCA	7 α -hydroxy-3-oxo-5 β -cholanic acid	LMST04010161
3-oxo-alloCDCA	7 α -hydroxy-3-oxo-5 α -cholanic acid	LMST04010163
7-oxo-LCA	3 α -hydroxy-7-oxo-5 β -cholanic acid	LMST04010150
UDCA	Ursodeoxycholic acid	LMST04010033
isoUDCA	3 α ,7 β -dihydroxy-5 β -cholanoic acid	LMST04010035
3-oxo-UDCA	7 β -hydroxy-3-oxo-5 β -cholanic acid	LMST04010162
DCA	deoxycholic acid	LMST04010040
alloDCA	3 α ,12 α -dihydroxy-5 α -cholanoic acid	LMST04010044
isoDCA	3 β ,12 α -dihydroxy-5 β -cholanoic acid	LMST04010042
isoalloDCA	3 β ,12 α -dihydroxy-5 α -cholanoic acid	LMST04010046
3-oxo-DCA	12 α -hydroxy-3-oxo-5 β -cholanic acid	LMST04010168
3-oxo-alloDCA	12 α -hydroxy-3-oxo-5 α -cholanic acid	LMST04010169
12 β -OH-LCA	3 α ,12 β -dihydroxy-5 β -cholanoic acid	LMST04010045
12 β -OH-isoLCA	3 β ,12 β -dihydroxy-5 β -cholanoic acid	LMST04010047
12-oxo-LCA	3 α -hydroxy-12-oxo-5 β -cholanic acid	LMST04010155
12-oxo-isoLCA	3 β -hydroxy-12-oxo-5 β -cholanic acid	LMST04010156
LCA	lithocholic acid	LMST04010003
alloLCA	3 α -hydroxy-5 α -cholanoic acid	LMST04010005
isoLCA	3 β -hydroxy-5 β -cholanoic acid	LMST04010004
isoalloLCA	3 β -hydroxy-5 α -cholanoic acid	LMST04010006
3-oxo-LCA	3-oxo-5 β -cholanic acid	LMST04010127
3-oxo-alloLCA	3-oxo-5 α -cholanic acid	LMST04010128
HDCA	3 α ,6 α -dihydroxy-5 β -cholanoic acid	LMST04010024
MDCA	3 α ,6 β -dihydroxy-5 β -cholanoic acid	LMST04010025
CA- Δ^4 -3-one	7 α ,12 α -dihydroxy-3-oxo-4-cholenoic acid	LMST04030114
DCA- $\Delta^{4,6}$ -3-one	12 α -hydroxy-3-oxo-4,6-choladienoic acid	LMST04010245
CDCA- Δ^4 -3-one	7 α -hydroxy-3-oxo-4-cholenoic acid	LMST04030123
LCA- $\Delta^{4,6}$ -3-one	3-oxo-4,6-choladienoic acid	LMST04010235
DCA- Δ^4 -3-one	12 α -hydroxy-3-oxo-4-cholenoic acid	LMST04010198
LCA- Δ^4 -3-one	3-oxo-4-cholenoic acid	LMST04010233
nor-CA	3,7,12-trihydroxy-24-nor-5 β -cholan-23-oic acid	LMST04060019
GCA	glycocholic acid	LMST05030001
TCA	taurocholic acid	LMST05040001
CA-3S	cholic acid 3-sulfate	
GCA-3S	glycocholic acid 3-sulfate	
TCA-3S	taurocholic acid 3-sulfate	LMST05020031
GCDCA	glycochenodeoxycholic acid	LMST05030008

TCDCA	taurochenodeoxycholic acid	LMST05040005
CDCA-3S	chenodeoxycholic acid 3-sulfate	LMST05020024
GCDCA-3S	glycochenodeoxycholic acid 3-sulfate	
TCDCA-3S	taurochenodeoxycholic acid 3-sulfate	LMST05020029
GUDCA	glycoursodeoxycholic acid	LMST05030016
TUDCA	tauroursodeoxycholic acid	LMST05040015
UDCA-3S	ursodeoxycholic acid 3-sulfate	LMST05020033
GUDCA-3S	glycoursodeoxycholic acid 3-sulfate	LMST05030012
TUDCA-3S	tauroursodeoxycholic acid 3-sulfate	
DCA-3S	deoxycholic acid 3-sulfate	LMST05020038
GDCA	glycodeoxycholic acid	LMST05030006
TDCA	taurodeoxycholic acid	LMST05040013
GDCA-3S	glycodeoxycholic acid 3-sulfate	
TDCA-3S	taurodeoxycholic acid 3-sulfate	
GLCA	glycolithocholic acid	LMST05030009
TLCA	taurolithocholic acid	LMST05040003
LCA-3S	lithocholic acid 3-sulfate	LMST05020015
GLCA-3S	glycolithocholic acid 3-sulfate	LMST05030004
TLCA-3S	taurolithocholic acid 3-sulfate	LMST05020003
GHCA	glycohyocholic acid	
THCA	taurohyocholic acid	LMST05040010
GCA-1 β -ol	glyco 1 β ,3 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (glyco 1 β -hydroxy cholic acid)	
TCA-1 β -ol	tauro 1 β ,3 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (tauro 1 β -hydroxy cholic acid)	
CA-1 β -ol	1 β ,3 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (1 β -hydroxy cholic acid)	LMST04010114
GCA-6 α -ol	glyco 3 α ,6 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (glyco 6 α -hydroxy cholic acid)	
TCA-6 α -ol	tauro 3 α ,6 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (tauro 6 α -hydroxy cholic acid)	
CA-6 α -ol	3 α ,6 α ,7 α ,12 α -tetrahydroxy-5 β -cholanoic acid (6 α -hydroxy cholic acid)	LMST04010118
CDCA-1 β -ol	1 β ,3 α ,7 α -trihydroxy-5 β -cholanoic acid (1 β -hydroxy chenodeoxycholic acid)	LMST04010058
GCA- Δ^4 -3-one	glyco 7 α ,12 α -dihydroxy-3-oxo-4-cholenic acid	
TCA- Δ^4 -3-one	tauro 7 α ,12 α -dihydroxy-3-oxo-4-cholenic acid	
GCDCA- Δ^4 -3-one	glyco 7 α -hydroxy-3-oxo-4-cholenic acid	LMST05030020

TCDCA- Δ^4 -3-one	tauro 7 α -hydroxy-3-oxo-4-cholenoic acid	
Δ^5 -3 β -ol	3 β -hydroxy-5-cholenoic acid	LMST04010201
G Δ^5 -3 β -ol	glyco 3 β -hydroxy-5-cholenoic acid	
T Δ^5 -3 β -ol	tauro 3 β -hydroxy-5-cholenoic acid	
Δ^5 -3 β -ol-3S	3 β -hydroxy-5-cholenoic acid 3-sulfate	
G Δ^5 -3 β -ol-3S	glyco 3 β -hydroxy-5-cholenoic acid 3-sulfate	
T Δ^5 -7 α -ol-3S	tauro 3 β -hydroxy-5-cholenoic acid 3-sulfate	
Δ^5 -3 β ,7 α -diol	3 β ,7 α -dihydroxy-5-cholenoic acid	LMST04010217
G Δ^5 -3 β ,7 α -diol	glyco 3 β ,7 α -dihydroxy-5-cholenoic acid	
T Δ^5 -3 β ,7 α -diol	tauro 3 β ,7 α -dihydroxy-5-cholenoic acid	
Δ^5 -3 β ,7 α -diol-3S	3 β ,7 α -dihydroxy-5-cholen-24-oic acid 3-sulfate	
G Δ^5 -3 β ,7 α -diol-3S	glyco 3 β ,7 α -dihydroxy-5-cholenoic acid 3-sulfate	
T Δ^5 -3 β ,7 α -diol-3S	tauro 3 β ,7 α -dihydroxy-5-cholenoic acid 3-sulfate	
Δ^5 -3 β ,7 α ,12 α -triol	3 β ,7 α ,12 α -trihydroxy-5-cholenoic acid	LMST04010227
G Δ^5 -3 β ,7 α ,12 α -triol	glyco 3 β ,7 α ,12 α -trihydroxy-5-cholenoic acid	
T Δ^5 -3 β ,7 α ,12 α -triol	tauro 3 β ,7 α ,12 α -trihydroxy-5-cholenoic acid	
Δ^5 -3 β ,7 α ,12 α -triol-3S	3 β ,7 α ,12 α -trihydroxy-5-cholen-24-oic acid 3-sulfate	
G Δ^5 -3 β ,7 α ,12 α -triol-3S	glyco 3 β ,7 α ,12 α -trihydroxy-5-cholenoic acid 3-sulfate	
T Δ^5 -3 β ,7 α ,12 α -triol-3S	tauro 3 β ,7 α ,12 α -trihydroxy-5-cholenoic acid 3-sulfate	