

Table S1. List of liver, fecal, serum bile acid, and internal standards (IS) names and abbreviations.

Abbreviation	Bile Acid Name
12 KLCA	3 α -Hydroxy-12 Ketolithocholic Acid
3, 7, 12 DHCA	3,7,12 Dehydrocholic acid
3,12-DKCA	3,12-Diketocholanic Acid
3,6-DKCA	3,6-Diketocholanic Acid
3,7-DKCA	3,7-Diketocholanic Acid
3-EpiDCA	5 β -Cholanic Acid-3 β , 12 α -diol
5 β -CA-3 α ,6 α -diol-7-one	5 β -Cholanic Acid-3 α , 6 α -diol-7-one
5 β -CA-7 α -ol-3-one	5 β -Cholenic Acid-7 α -ol-3-one
8(14), 5 β -CA-3 α , 12 α -diol	8(14), 5 β -Cholenic Acid-3 α , 12 α -diol
7 KLCA	3 α -Hydroxy-7 Ketolithocholic Acid
7, 12 DKCA	3 α -Hydroxy-7,12-Diketocholanic Acid
9(11)-CA	9(11), (5 β)-Cholenic Acid-3 α -ol-12-one
ALCA	Allolithocholic Acid
AlloCA	Allocholanolic acid
ApoCA	Apocholic acid
CA	Cholic acid
CDCA	Chenodeoxycholic acid
DCA	Deoxycholic acid
DHCA	3-Dehydrocholic Acid
GDCA	Glycodeoxycholic acid
GLCA	Glycolithocholic Acid
HCA	Hyochoolic acid
HDCA	Hyodeoxycholic acid
IsoDCA	Isodeoxycholic Acid
IsoLCA	Isolithocholic Acid
KCA	3-Ketocholanic Acid
LC	Lithocholic acid
LCA	Lithocholenic acid
MuriDCA	Murideoxycholic acid
MuroCA	Murocholic Acid
norDCA	3 α ,12 α , 23-Nordeoxycholic Acid
TCA	Taurocholic acid
TCDCA	Taurochenodeoxycholic acid
TDCA	Taurodeoxycholic acid
THCA	Taurohyochoolic Acid
THDCA	Taurohyodeoxycholic Acid

TLCA	Taurolithocholic Acid
TUCA	Tauro-ursocholanolic Acid
TUDCA	Tauroursodeoxycholic acid
T α MCA	Tauro- β -muricholic acid
T β MCA	Tauro- α -muricholic acid
T ω MCA	Tauro- ω -muricholic acid
UCA	Ursocholanolic Acid
UDCA	Ursodeoxycholic acid
α MCA	Alpha-Muricholic acid
β MCA	Beta- Muricholic acid
ω MCA	Omega- Muricholic acid
LC-d4 (IS)	Lithocholic Acid-d4
DCA-d4 (IS)	Deoxycholic Acid-d4
CDCA-d4 (IS)	Chenodeoxycholic Acid-d4
UDCA-d4 (IS)	Ursodeoxycholic Acid-d4
HDCA-d4 (IS)	Hyodeoxycholic Acid-d5
CA-d4 (IS)	Cholic Acid-d4
GLCA-d4 (IS)	Glycolithocholic Acid-d4
GCDCA-d4 (IS)	Glycochenodeoxycholic Acid-d4
GDCA-d4 (IS)	Glycodeoxycholic Acid-d4
GUDCA-d4 (IS)	Glycoursodeoxycholic Acid-d4
GCA-d4 (IS)	Glycocholic Acid-d4
TLCA-d4 (IS)	Taurolithocholic Acid-d4
TUDCA-d4 (IS)	Tauroursodeoxycholic Acid-d5
TCA-d4 (IS)	Taurocholic Acid-d4

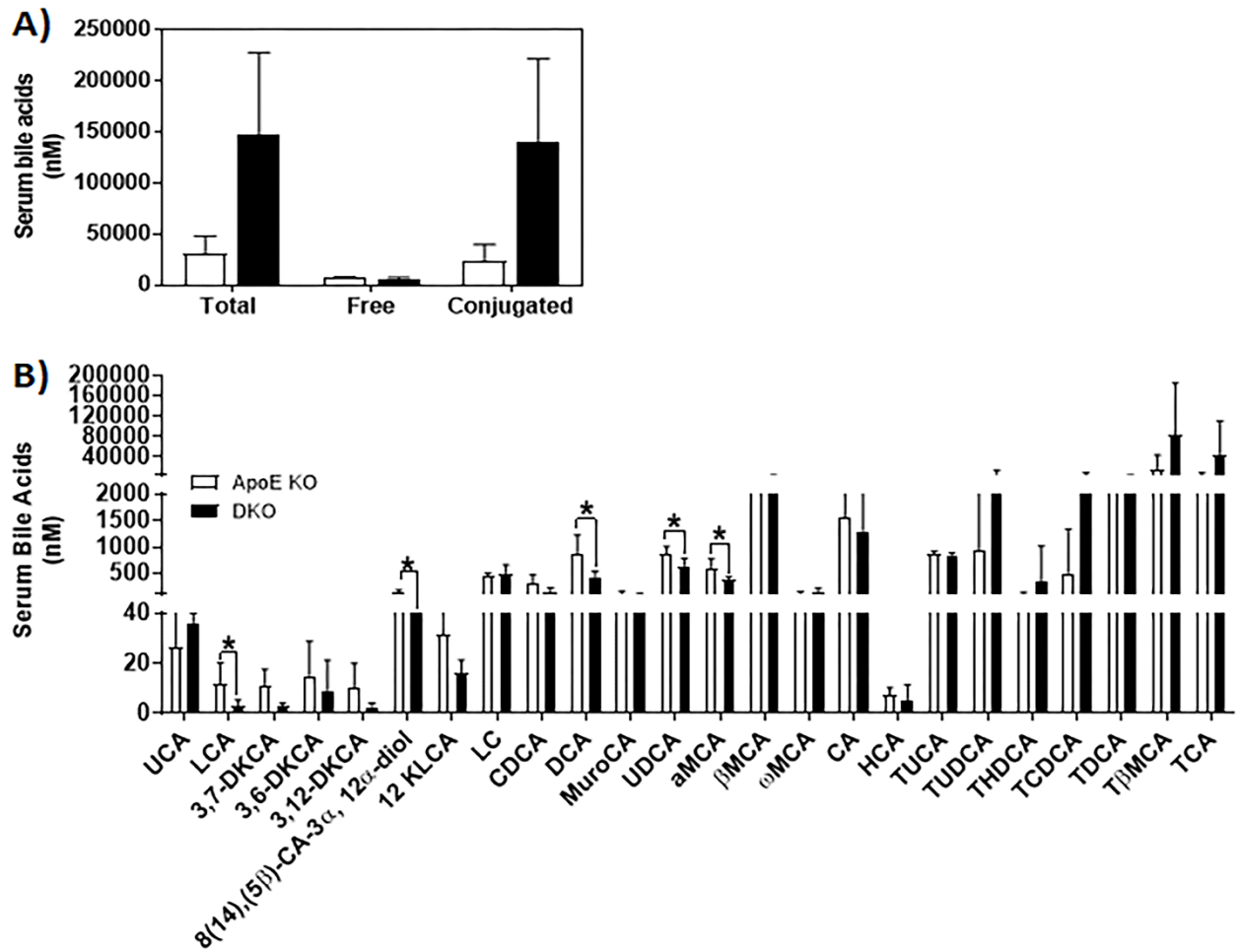


Figure S1. GC-MS analysis of bile acid concentration in serum derived from HFHCD-fed ApoE KO and DKO mice. **A.** Measured total, unconjugated, and conjugated bile acid pool in blood serum from HFHCD-fed animals (n = 6 per group). **B.** Concentration of individual bile acids in serum from HFHCD-fed ApoE KO and DKO mice (n = 6 per group). The data is presented as mean \pm SEM, *p < 0.05, ** p < 0.01, *** p < 0.001.