

Table S3 Forty-five bile acids and four deuterium-labeled BAs

Trivial name	Abbreviation	Supplier	Product number	Molecular weight (g/mol)	Found BAs in cecum
Lithocholic acid	LCEA	Steraloids	C2700-000	374.56	x
3-Ketocholanic acid	DLCA	Steraloids	C1750-000	374.56	x
Allolithocholic acid	alloLCA	Steraloids	C0700-000	376.57	x
Isolithocholic acid	isoLCA	Steraloids	C1475-000	376.57	x
Lithocholic acid	LCA	Sigma	L6250-10G	376.57	LCA
5 α -Cholanic Acid-3 α -ol-6-one	5 α -Cholanic Acid-3 α -ol-6-one	Steraloids	C0720-000	390.56	x
3 α -Hydroxy-7 Ketolithocholic Acid	7-oxoLCA	Steraloids	C1600-000	390.56	x
3 α -Hydroxy-12 Ketolithocholic Acid	12-oxoLCA	Steraloids	C1650-000	390.56	x
8(14),(5 β)-Cholanic Acid-3 α , 12 α -diol	Apocholeic acid	Steraloids	C2500-000	390.56	x
3-dehydrochenodeoxycholic acid	3-dehydroCDCA	Steraloids	C1706-000	390.56	3-dehydroCDCA
Murideoxycholic acid	MDCA	Steraloids	C0910-000	392.57	MDCA
Ursodeoxycholic acid	UDCA	Sigma	U5127-1G	392.57	UDCA
Hyodeoxycholic acid	HDCA	Sigma	H3878-5G	392.57	HDCA
Chenodeoxycholic acid	CDCA	Sigma	C9377-100MG	392.57	x
Deoxycholic acid	DCA	Sigma	D2510-10G	392.57	DCA
Isodeoxycholic acid	isoDCA	Steraloids	C1170-000	392.57	x
d4-Deoxycholic acid	d4-DCA	CDN Isotopes	D-2941	396.6	x
7,12-Diketolithocholic acid	7,12DKLCA	Steraloids	C1500-000	404.54	x
6,7-Diketolithocholic acid	6,7DKLCA	Steraloids	C1485-000	404.54	x
7-oxodeoxycholic acid	7-oxoDCA	Steraloids	C1250-000	406.56	7-oxoDCA
3-oxodeoxycholic acid	3-oxoDCA	Steraloids	C1272-000	406.56	x
Ursocholic acid	UCA	Santa Cruz	sc-473896	408.57	x
ω -Muricholic acid	ω MCA	Steraloids	C1888-000	408.57	ω MCA
α -Muricholic acid	α MCA	Steraloids	C1890-000	408.57	α MCA
β -Muricholic acid	β MCA	Steraloids	C1895-000	408.57	β MCA
Hyocholeic acid	λ MCA	Steraloids	C1850-000	408.57	x
Allocholeic acid	alloCA	Santa Cruz	sc-210779	408.57	alloCA
Cholic acid	CA	Sigma	C1129-25G	408.57	CA
d4-Cholic acid	d4-CA	Sigma	D-2452	412.6	x
Glycolithocholic acid sodium salt	GLCA	Santa Cruz	sc-396741	455.61	x
Glycochenodeoxycholate, sodium salt	GCDCA	Sigma	G0759-100MG	471.61	x
Glycohyodeoxycholic acid	GHDCA	Abcam	sc-396740	449.62	x
Glycoursodeoxycholic acid	GUDCA	Sigma	06863-1G	449.62	x
Glycodeoxycholic acid, sodium salt	GDCA	Calbiochem	361311-5GM	471.6	x
Glycodeoxycholic-2,2,4,4-D4 acid	d4-GDCA	Sigma	739707-SPEC	453.65	x
Glycohyocholic acid, sodium salt	GHCA	Steraloids	C1860-000	487.6	x
Glycocholic acid	GCA	Steraloids	C1925-000	465.62	x
Taurolithocholate, sodium salt	TLCA	Sigma	T7515-1G	505.69	x
Cholic acid 7-sulfate	CA-7S	Cayman/ Biomol	Cay9002532-1	488.6	CA-7S
Tauroursodeoxycholic acid, sodium salt	TUDCA	Calbiochem	580549-1GM	521.7	TUDCA
Taurohyodeoxycholic acid	THDCA	Steraloids	C0892-000	521.69	THDCA
Taurochenodeoxycholic acid	TCDCA	Sigma	T6260-100MG	521.69	TCDCA
Taurodeoxycholic acid	TDCA	Steraloids	C1160-000	499.7	TDCA
ω -Tauromuricholic acid, sodium salt	ω TMCA	Steraloids	C1889-000	537.69	ω TMCA
α -Tauromuricholic acid, sodium salt	α TMCA	Steraloids	C1893-000	537.69	α TMCA
β -Tauromuricholic acid, sodium salt	β TMCA	Steraloids	C1899-000	537.69	β TMCA
Taurohyocholic acid, sodium salt	THyoCA	Steraloids	C1887-000	537.69	x
Taurocholic acid	TCA	Steraloids	C1965-000	515.7	TCA
Taurocholic Acid-d5, sodium Salt	d5-TCA	Toronto research chemicals	NC0341860	542.72	x