

Deoxycholic Acid Assay Analyzed with HPLC – AppNote

A Reliable Method for a Bile Acid

This Deoxycholic Acid Assay produces Run to Run consistency and Precision with Retention Time RSD values of 0.1%. A sensitive HPLC-UV Method that may be used for quantification in raw material and liquid pharmaceutical formulation is presented.

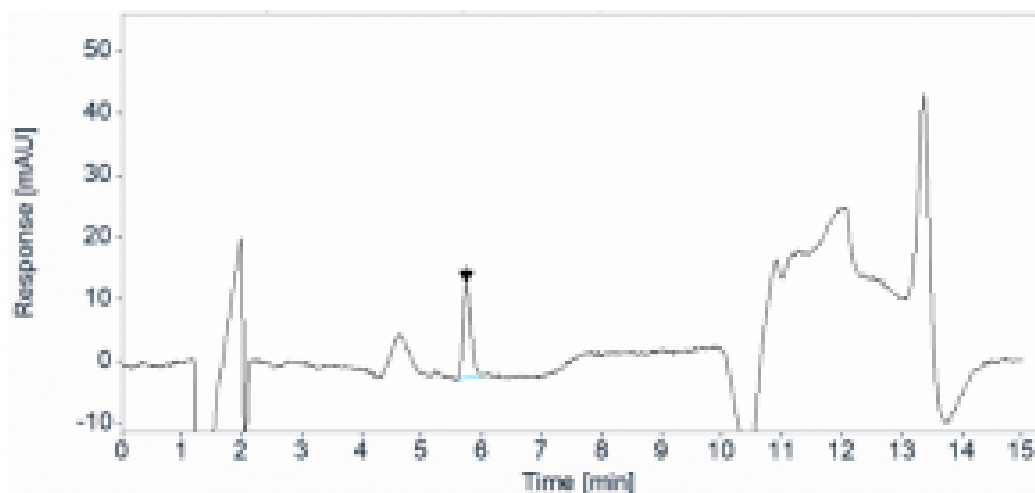


Figure 1.
Full Chromatogram

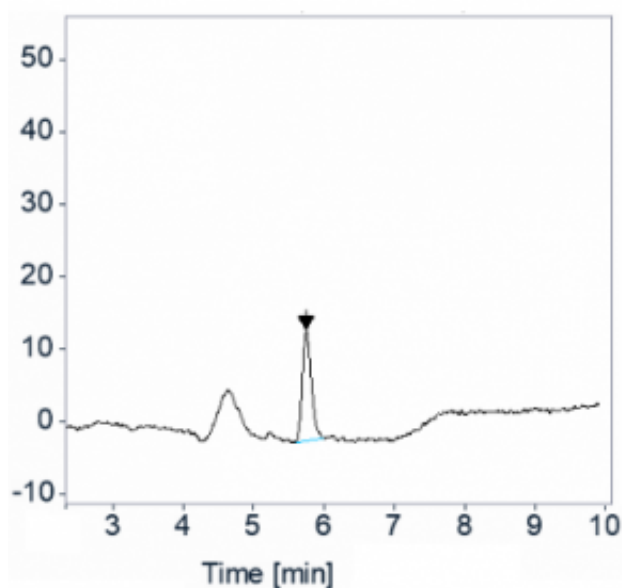
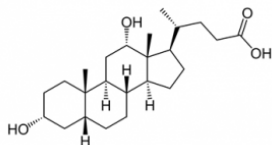


Figure 2.
Magnified Chromatogram to show peak of interest

Peak:

Deoxycholic Acid

Method Conditions:**Column:** Cogent Bidentate C18™, 4um, 100Å**Catalog No.:** [40018-15P](#)**Dimensions:** 4.6mm x 150mm**Mobile Phase:**

A: DI Water

B: 20:80 Acetonitrile / Buffer (50mM KH₂PO₄ pH adjusted to 7.5)

C: Acetonitrile

Time (minutes)	A	B	C
0	55%	20%	25%
2	55%	20%	25%
2.05	48%	20%	32%
8	48%	20%	32%
8.05	20%	20%	60%
11	20%	20%	60%
11.05	55%	20%	25%
15	55%	20%	25%

Injection vol.: 100µL**Flow rate:** 1.0mL / minute**Detection:** UV @ 205nm**Column Temperature:** 35°C**Sample Preparation:** Deoxycholic Acid 50µg / mL in DI Water

Note: Deoxycholic Acid also known as Cholanoic Acid and sometimes sold as Kybella™ or Belkya™, is one of the secondary bile acids, which are metabolic byproducts of intestinal bacteria and can be used to determine intestinal fat adsorption. Another research application is when a micelle is formed with it, it can be used as a mild detergent for the isolation of membrane proteins.

This Method was developed by and is presented courtesy of [ARL- Eutech Scientific Services.](#)

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