

## 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.

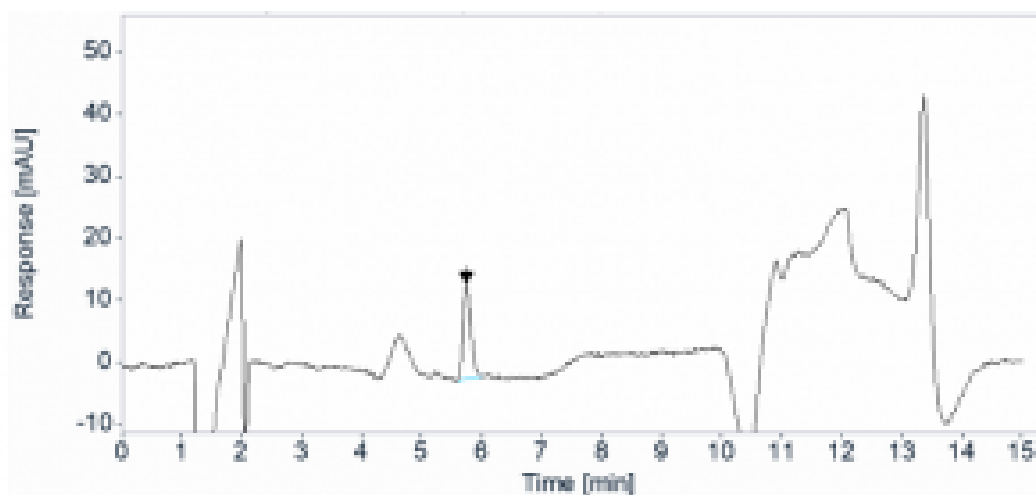


Figure 1.

Full Chromatogram

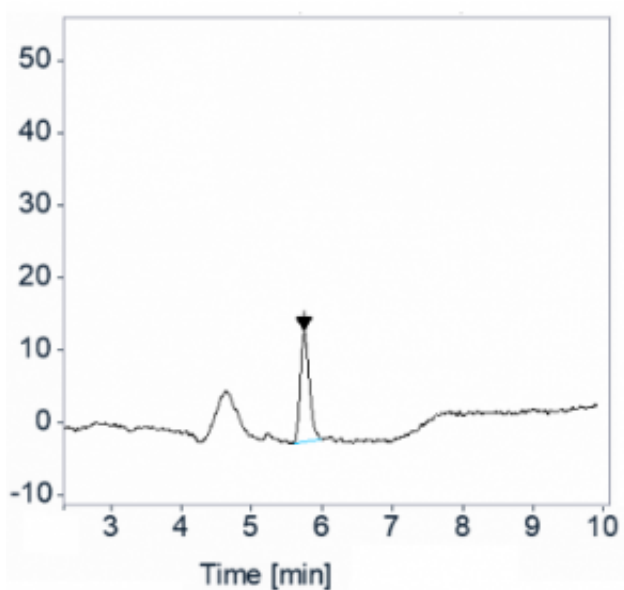
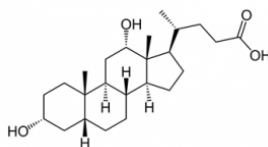


Figure 2.

Magnified Chromatogram to show peak of interest

Peak:



Deoxycholic Acid

Method Conditions:

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: [40018-15P](#)

Dimensions: 4.6mm x 150mm

Mobile Phase:

A: DI Water

B: 20:80 Acetonitrile / Buffer (50mM KH<sub>2</sub>PO<sub>4</sub> 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 Belkyra™, 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](#).

