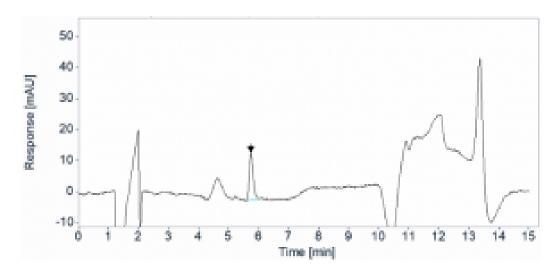


## Deoxycholic Acid Assay Analyzed with HPLC - AppNote

## 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

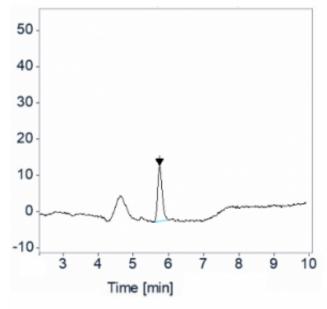
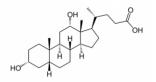


Figure 2.

Magnified Chromatogram to show peak of interest

**Peak:** 





Deoxycholic Acid

## **Method Conditions:**

**Column:** Cogent Bidentate C18<sup>™</sup>, 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	В	С
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<sup>m</sup> or Belkyra<sup>m</sup>, 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 used as a mild detergent for the isolation of membrane proteins.

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