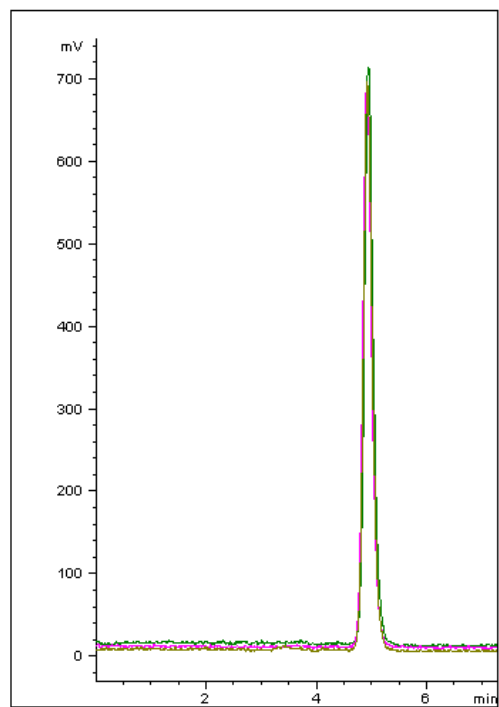


Deoxycholic Acid Analyzed with ELSD- AppNote

An Analysis of a Bile Acid

This simple Method shows excellent Peak shape and Reproducibility as shown in the five injection overlay below.

As the shape of the molecule is very similar to steroids, the Cogent UDC-Cholesterol™ Column was selected for this Method as it is founded on the ability to retain compounds based on shape, hydrophobicity, and polarity of molecules.



Peak:

Deoxycholic Acid

Method Conditions:



Column: Cogent UDC Cholesterol™, 4μm, 100Å

Catalog No.: 69069-15P

Dimensions: 4.6mm x 150mm

Mobile Phase: 90:10 Methanol / DI Water with 0.1% Formic Acid

Injection vol.: 5μL

Flow rate: 0.5mL / minute

Detection: ELSD (Evaporative Light Scattering Detector) Gain: 9; Temperature: 55°C;

Sample Preparation: Deoxycholic Acid standard solution 1.0mg / mL in Methanol

Note: Deoxycholic Acid is a secondary bile acid, a metabolic byproduct of intestinal bacteria. It is used in various fields of human medicine, mainly for emulsification of fats for absorption in the intestine. The acid is also used as a biological detergent to lyse cells, and for isolation of membrane associated proteins.