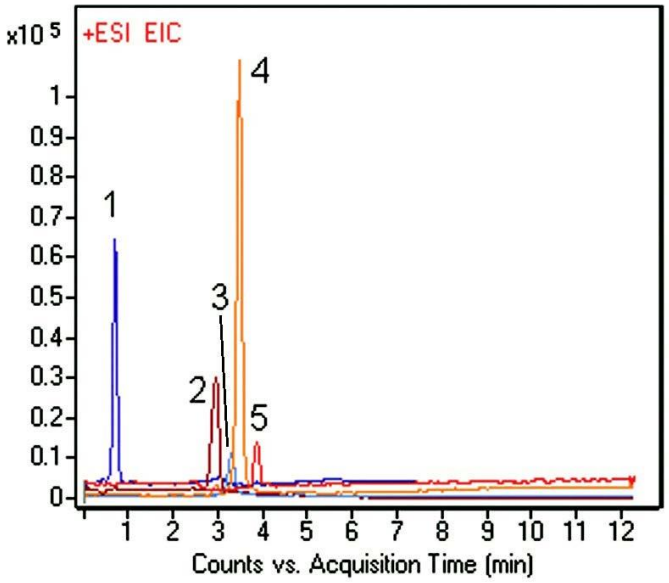
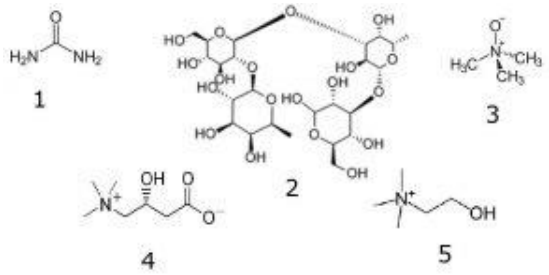
Urea Lactodifucotetraose Trimethylamine L-carnitine and Choline Analyzed by LC-MS - AppNote

Human Plasma Extract of Urea, Lactodifucotetraose, Trimethylamine, L-carnitine & Choline

Using this Method it is possible to analyze Compounds present in a Human Plasma Samples. The mechanism of retention of these polar compounds on the Column used is unknown at this time.

It is possible to Retain and Separate steroids and other Compounds based on the Shape of the Molecules.





Peaks:

1. Urea 61.0396 m/z [M + H]+
2. Lactodifucotetraose 635.2393 m/z [M + H]+
3. Trimethylamine N-oxide 76.0757 m/z [M + H]+
4. L-carnitine 162.1125 m/z [M + H]+
5. Choline 105.1148 m/z [M + H]+

Method Conditions

Column: Cogent UDC Cholesterol™, 4 µm, 100 Å
Catalog No.: 69069-05P-2
Dimensions: 2.1 x 50 mm

Mobile Phase:

- A: DI Water / 0.1% Formic Acid (v/v)
- B: Acetonitrile / 0.1% Formic Acid (v/v)

Gradient:

Time *(minutes)*	%B
0	90
1	90
7	20
11	20
12	90

Post Time: 3 minutes
Flow rate: 0.4 mL / minute
Detection: ESI – POS - Agilent 6210 MSD TOF Mass Spectrometer
Injection vol.: 1 µL

Sample Preparation: Proprietary Lyophilized Plasma Sample was reconstituted in 60 µL 80% Acetonitrile / 20% DI Water mixture.

Attachment No 302 Plasma Extract Analyzed by LCMS pdf 0.4 Mb Download File

MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451
Tel: (732) 380-8900
Fax: (910) 769-9435
Email: customers@mtc-usa.com
Website: www.mtc-usa.com