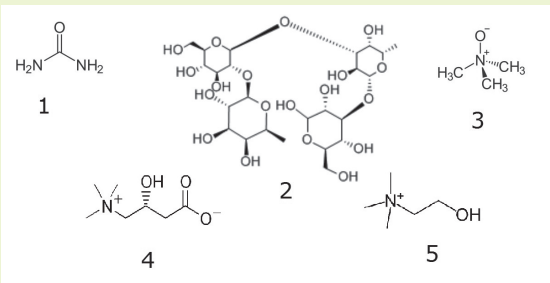
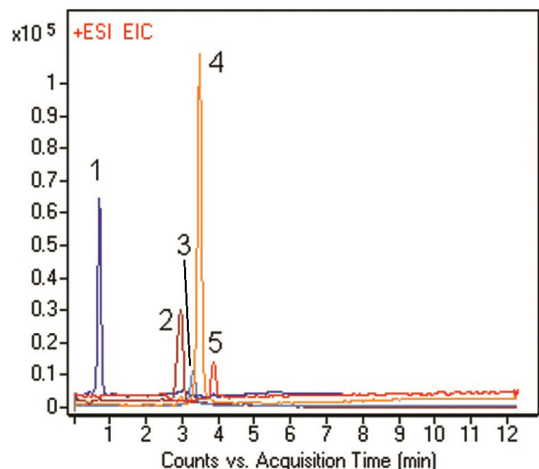


Plasma Extract

LC-MS method for polar compounds using UDC-Cholesterol



Method Conditions

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

Catalog No.: 69069-05P-2

Dimensions: 2.1 x 50 mm

Solvents: A: DI H₂O / 0.1% formic acid (v/v)

B: Acetonitrile / 0.1% formic acid (v/v)

Gradient:	time (min.)	%B
	0	90
	1	90
	7	20
	11	20
	12	90

Post time: 3 min

Injection vol.: 1 μL

Flow rate: 0.4 mL/min

Detection: ESI - POS - Agilent 6210 MSD TOF mass spectrometer

Sample: Proprietary lyophilized plasma sample was reconstituted in 60 microL 80% acetonitrile / 20% DI H₂O mixture

- 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]⁺

Discussion

When using the Cogent UDC-Cholesterol column and MS detection, it was possible to retain compounds present in a human plasma sample. The mechanism of retention of these polar compounds on Cogent UDC-Cholesterol column is unknown at this time. This Cogent column is known to retain and separate steroids and other compounds based on the shape of the molecules.