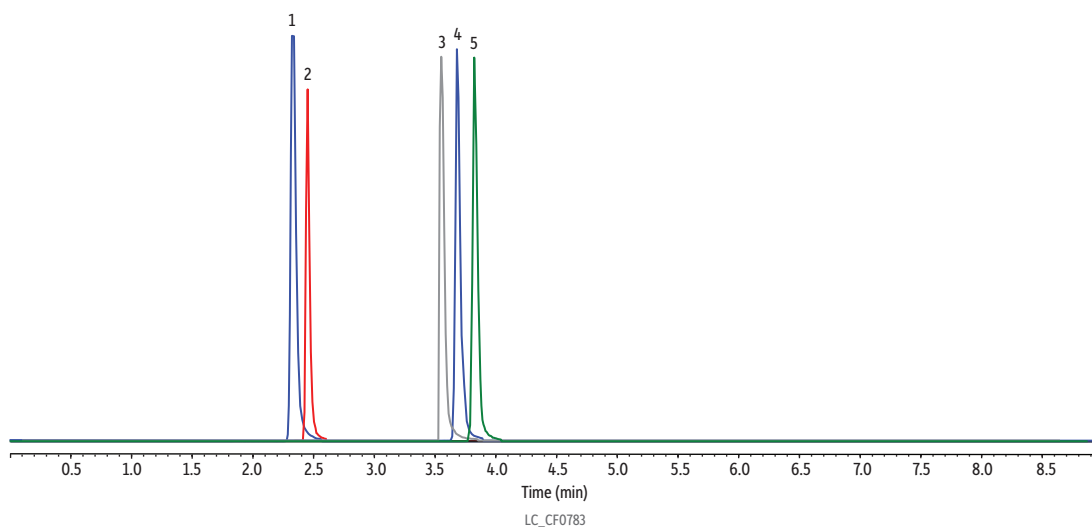


Key Separation of Acylcarnitines for Differential Diagnosis Part 1



Peaks	ts (min)	Precursor Ion	Product Ion
1. C4-Isobutyl-L-carnitine	2.33	232.1	85.1
2. C4-Butyl-L-carnitine	2.47	232.1	85.1
3. 2-Methylbutyl-L-carnitine	3.64	246.1	85.1
4. C5-Isovaleryl-L-carnitine	3.74	246.1	85.1
5. C5-Valeryl-L-carnitine	3.90	246.2	85.1

Column Raptor ARC-18 (cat.# 9314A12)
 Dimensions: 100 mm x 2.1 mm ID
 Particle Size: 2.7 µm
 Pore Size: 90 Å
 Guard Column: Raptor ARC-18 EXP Guard Column Cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9314A0252)
 Temp.: 35 °C

Standard/Sample
 Diluent: Water, 0.1% formic acid
 Conc.: 100 ng/mL
 Inj. Vol.: 3 µL

Mobile Phase
 A: Water, 0.1% formic acid
 B: 90:10 Acetonitrile:isopropanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	98	2
1.00	0.6	98	2
4.00	0.6	88	12
6.00	0.6	0	100
7.50	0.6	0	100
8.00	0.6	98	2
9.00	0.6	98	2

Detector MS/MS
 Ion Source: Electrospray
 Ion Mode: ESI+
Instrument UHPLC
Notes All analytes spiked at 100 ng/mL