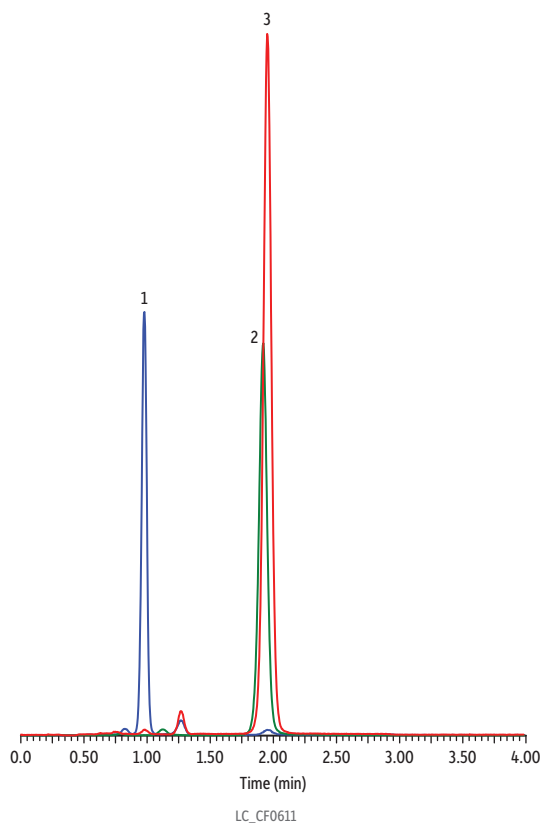


Coenzyme Q10 in Serum on Raptor Biphenyl by LC-MS/MS



Peaks	tr (min)	Precursor Ion	Product Ion
1. Ubiquinol-10	0.98	882.82	197.18
2. Ubiquinone-10-D9	1.92	872.89	206.16
3. Ubiquinone-10	1.95	863.86	197.12

Column Raptor Biphenyl (cat.# 9309552)
 Dimensions: 50 mm x 2.1 mm ID
 Particle Size: 5 µm
 Pore Size: 90 Å
 Guard Column: Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 5 µm (cat.# 930950252)
 Temp.: 40 °C

Standard/Sample
 Diluent: See sample preparation
 Conc.: Endogenous levels in serum
 Inj. Vol.: 5 µL

Mobile Phase
 A: 0.1% formic acid, 5 mM ammonium formate in 50:50 water:acetonitrile
 B: 0.1% formic acid, 5 mM ammonium formate in methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	5	95
2.50	0.6	0	100
2.51	0.6	5	95
4.00	0.6	5	95

Detector MS/MS
 Ion Mode: ESI+
 Mode: MRM
Instrument UHPLC

Sample Preparation A 150 µL aliquot of serum was mixed with 2.5 µL of ubiquinone-10-D9 (10 µg/mL in methanol) and 850 µL of 1-propanol. Stirred to mix for 2 minutes and then centrifuged at 4000 rpm for 5 minutes. Transferred a portion of extract to HPLC vial for analysis.