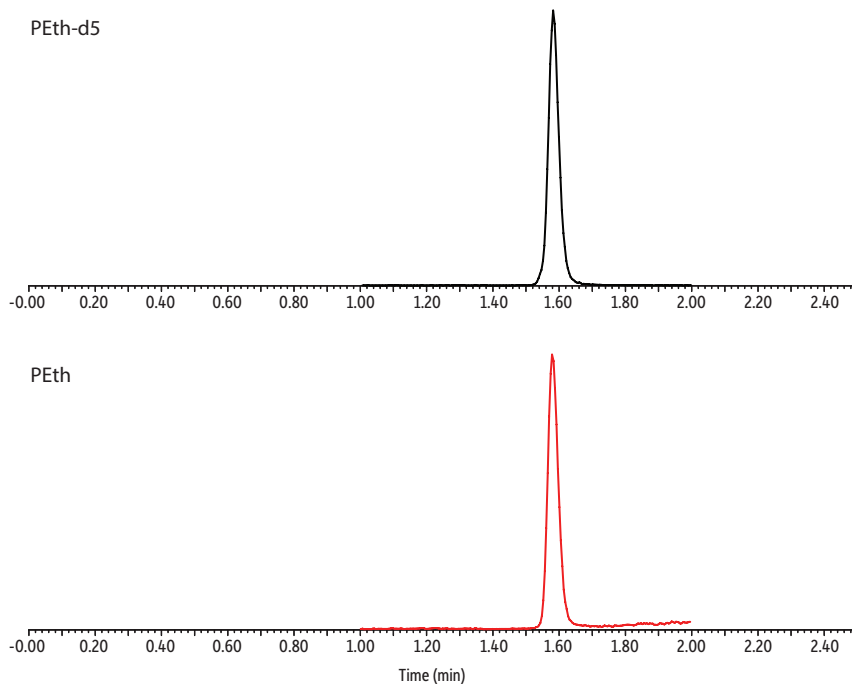


Phosphatidylethanol 16:0/18:1 in Human Whole Blood on Raptor FluoroPhenyl

- Simple protein precipitation sample preparation protocol.
- Fast 3.5-minute gradient cycle time.
- Easy-to-prepare mobile phases.



LC_CF0733

Peaks	ts (min)	Conc.	Precursor Ion	Product Ion
1. Phosphatidylethanol-d5 (PEth-d5) 16:0/18:1	1.58	0.4 μ M	706.6	281.3
2. Phosphatidylethanol (PEth) 16:0/18:1	1.58	0.5 μ M	701.5	255.3

Column Raptor FluoroPhenyl (cat.# 9319A52)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 2.7 μ m
Pore Size: 90 Å
Temp.: 40 °C

Sample
Conc.: 0.5 μ M in blood
Inj. Vol.: 2 μ L

Mobile Phase
A: Water, 5 mM ammonium acetate
B: 9:1 Methanol:2-propanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	30	70
1.00	0.5	20	80
2.00	0.5	20	80
2.50	0.5	0	100
2.51	0.5	30	70
3.50	0.5	30	70

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

Notes Sample Preparation Procedure (Provided by Redhot Diagnostics):
 The fortified blood sample (50 μ L) was mixed with 50 μ L of internal standard (0.4 μ M PEth-d5 in 2-propanol) and 150 μ L of 4:1 2-propanol:tetrahydrofuran. The mixture was vortexed for 20 seconds at 3000 rpm and centrifuged for 10 minutes at 4300 rpm. The supernatant (2 μ L) was injected for analysis.