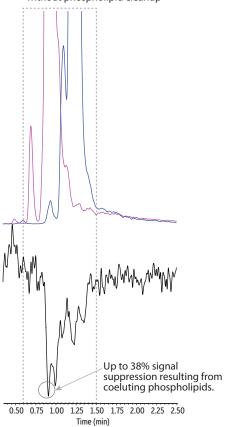
Signal Suppression from Phospholipids

A. Protein Precipitation Only

- Phosphatidylcholine 34:2
- Phosphatidylcholine 36:2
- Post-column infusion signal for nortriptyline without phospholipid cleanup



		Precursor	Product
Peaks	tr (min)	Ion	Ion
1. Phosphatidylcholine 34:2	0.831	758.5	184.1
2. Phosphatidylcholine 36:2	1.119	786.5	184.1

Raptor Biphenyl (cat.# 9309232) 30 mm x 2.1 mm ID Column Dimensions:

1.8 µm 90 Å 40 °C Particle Size: Pore Size: Temp.: Standard/Sample

Diluent: Methanol Inj. Vol.: $1\,\mu L$ Mobile Phase

0.1% Formic acid in water 0.1% Formic acid in methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.75	13.3	86.7
2.50	0.75	13.3	86.7

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

Notes

Sample Preparation Proteins were precipitated out of plasma using a 3:1 1% formic

acid in acetonitrile:human plasma mixture that was then centrifuged. The supernatant was then divided and cleanup was performed on half using a Resprep PLR SPE 96-well plate (cat.# 28301).

Nortriptyline (15 ng/mL) was infused post-column at 60 µL/min in order to demonstrate signal suppression from coeluting phospholipids. To demonstrate the effect of cleanup on signal strength, 1 µL injections were made of protein crashed plasma samples both with and without Resprep PLR SPE cleanup.

B. Phospholipid and Protein Removal (Resprep PLR SPE)

Post-column infusion — without phospholipid cleanup signal for nortriptyline — with phospholipid cleanup

