Phosphatidylethanol Biomarker Analysis by UHPLC-MS/MS

ACE® Ultra-inert UHPLC & HPLC Columns

Application #**AN3400**

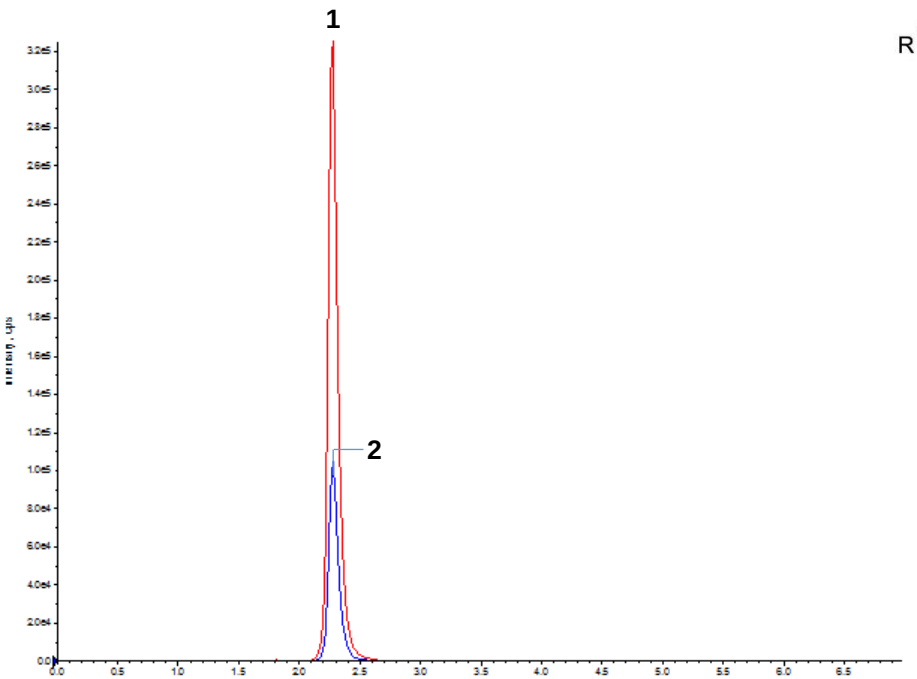
Conditions

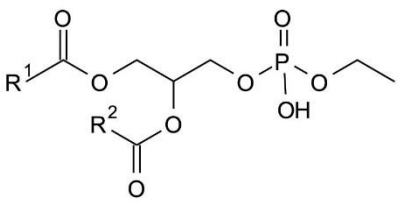
Column:	ACE 2 C4
Dimensions:	100 x 2.1 mm
Part Number:	EXL-103-1002U
Mobile Phase:	A: 2 mM ammonium acetate/MeCN (20:80 v/v) B: IPA

Time (mins)	%B
0.00	10
1.00	10
3.00	60
3.01	100
5.00	100
5.10	10

Flow Rate:	0.4 mL/min
Injection:	5 µL
Temperature:	40 °C
Detection:	AB SCIEX triple quad 5500 Turbo IonSpray negative mode ESI IonSpray Voltage: -4500 V Temperature: 650 °C

Phosphatidylethanol (PEth) measurement in blood is used as a biomarker of chronic alcohol use/abuse.





Phosphatidylethanol

1. R1/R2 = 18:1/18:1
(*m/z* 701.4 → 281.2)

2. R1/R2 = 16:1/16:1
(*m/z* 701.4 → 255.1)

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