# Phosphatidylethanol Biomarker Analysis by UHPLC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

Application #**AN3400**

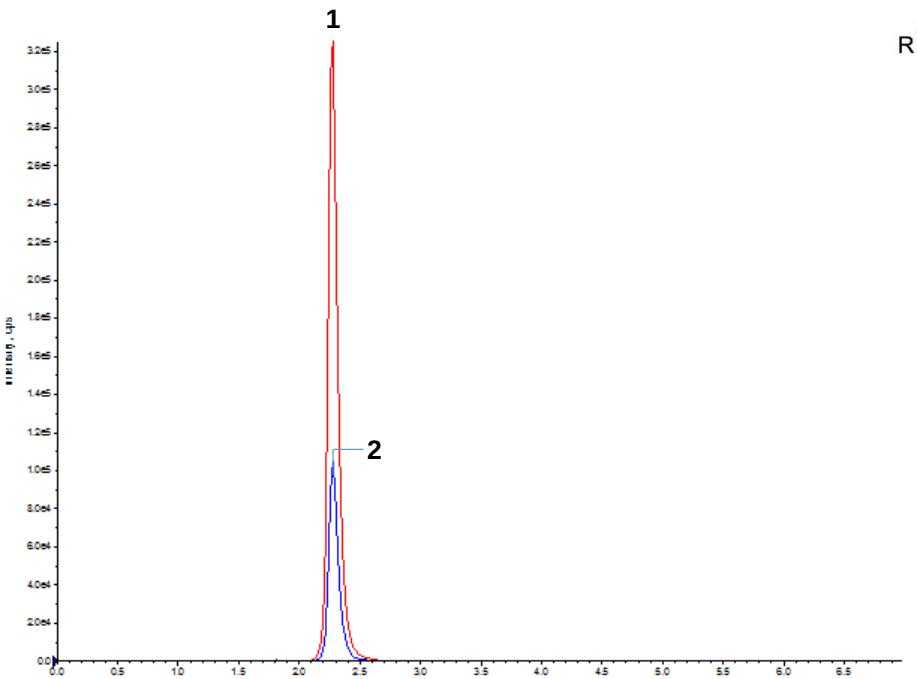
**Conditions**

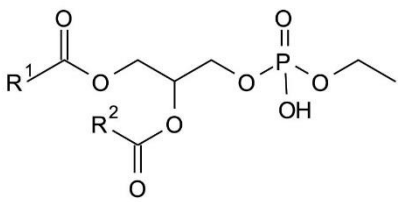
| | |
|---|---|
| Column: | ACE Excel 2 C4 |
| Dimensions: | 100 x 2.1 mm |
| Part Number: | EXL-103-1002U |
| Mobile Phase: | A: 2 mM ammonium acetate/MeCN (20:80 v/v)<br>B: IPA |

| 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<br>Turbo IonSpray negative mode ESI<br>IonSpray Voltage: -4500 V<br>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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