1,000 Injection Lifetime: EtG and EtS in Urine on Raptor EtG/EtS

Peaks
1. Ethyl-β-D-glucuronide-d5 225.9 84.9 -
2. Ethyl-β-D-glucuronide 220.8 84.9 74.8
3. Ethyl sulfate-d5 129.7 97.7 -
4. Ethyl sulfate 124.7 96.8 79.7

Column
Raptor EtG/EtS (cat.# 9325A12)
Dimensions: 100 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: UltraShield UHPLC precolumn filter, 0.2 µm frit (cat.# 25809)
Temp.: 35 °C
Diluent: 0.3% Formic acid in water
Conc.: A 500 ng/mL QC sample was prepared in urine. 50 µL of the sample was diluted with 950 µL of a working internal standard (25 ng/mL EtS-d5/100 ng/mL EtG-d5 in 0.1% formic acid in water). The sample was vortexed at 3000 rpm for 30 seconds to mix. The sample was then centrifuged at 3000 rpm for 5 minutes at 10 °C. The autosampler needle was adjusted to inject from the supernatant.
Inj. Vol.: 10 µL

Mobile Phase
A: 0.3% Formic acid in water
B: 0.3% Formic acid in acetonitrile

Time (min) Flow (mL/min) %A %B
0.00 0.5 95 5
2.50 0.5 65 35
2.51 0.5 95 5
4.00 0.5 95 5

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

Notes
Reference Standards
Ethyl-β-D-glucuronide (cat.# 34101)
Ethyl-β-D-glucuronide-d5 (cat.# 34102)
Ethyl sulfate sodium salt (cat.# 34103)
Ethyl sulfate-d5 sodium salt (cat.# 34104)