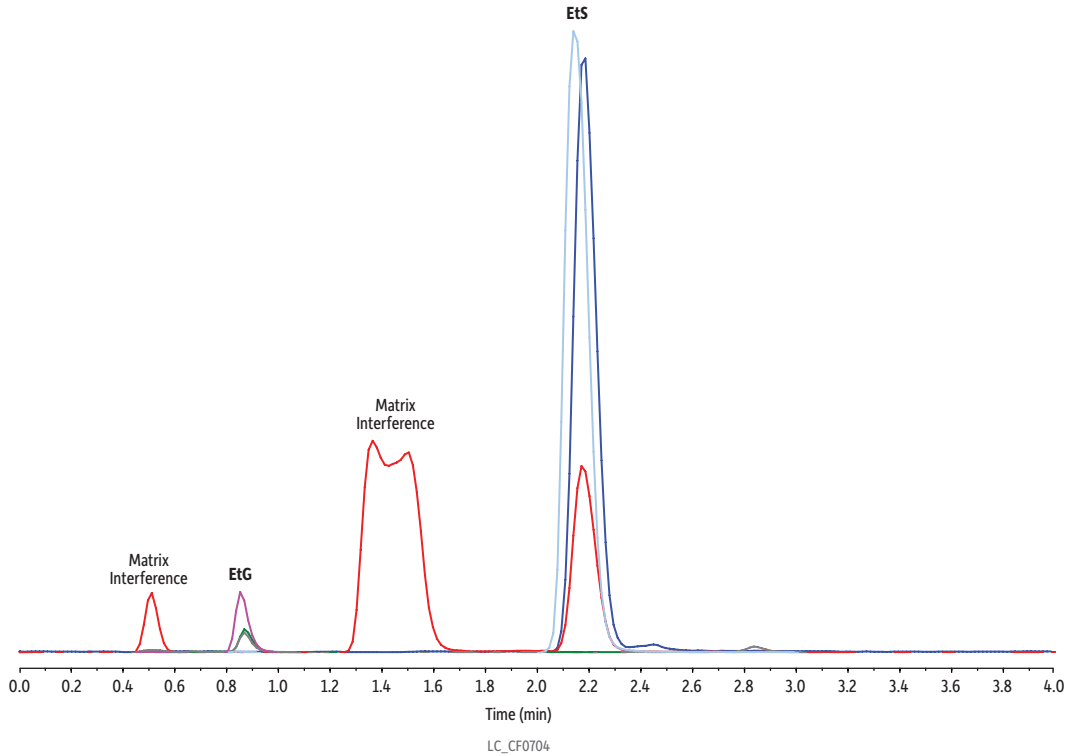


Ethyl Glucuronide (EtG) and Ethyl Sulfate (EtS) in Urine on Raptor EtG/EtS



Peaks	tr (min)	Precursor Ion	Product Ion	Product Ion
1. Ethyl-β-D-glucuronide-d5	0.86	225.9	84.9	-
2. Ethyl-β-D-glucuronide	0.87	220.8	84.9	74.8
3. Ethyl sulfate-d5	2.14	129.7	97.7	-
4. Ethyl sulfate	2.17	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

Sample
 Diluent: 0.1% Formic acid in water
 Conc.: A 500 ng/mL standard was prepared in urine. 50 μL of the standard 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 3,500 rpm for 10 seconds to mix. The sample was then centrifuged at 3,000 rpm for 5 minutes at 10 °C. The autosampler needle was adjusted to inject from the supernatant.

Inj. Vol.: 10 μL

Mobile Phase
 A: 0.1% Formic acid in water
 B: 0.1% 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)