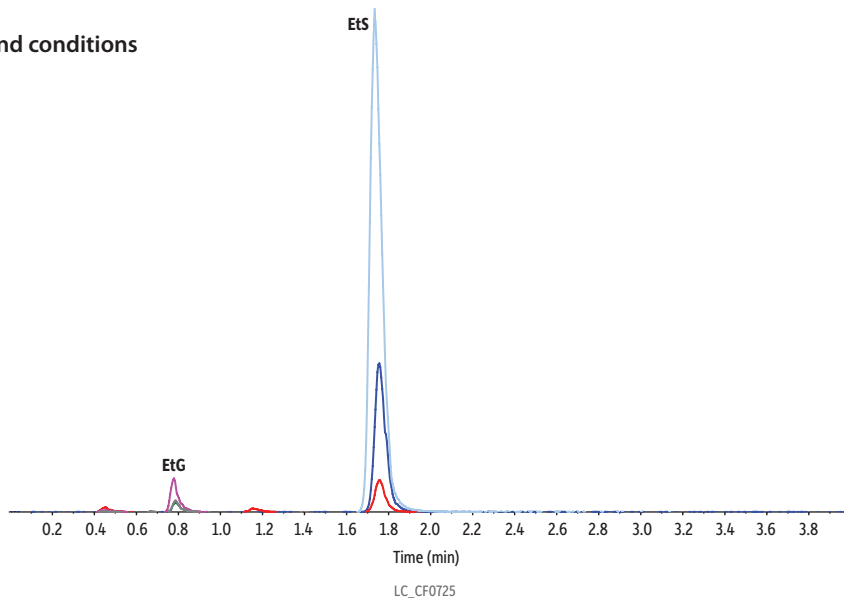


Ethyl Glucuronide (EtG) and Ethyl Sulfate (EtS) in Oral Fluid on Raptor EtG/EtS

- Simultaneously analyze EtG and EtS in oral fluids
- Fast 4-minute analysis
- Uses the same column and conditions as urine analysis



Peaks	Retention Time (min)	Concentration (ng/mL)	Precursor Ion	Product Ion	Product Ion
1. Ethyl-β-D-glucuronide-d5	0.77	100	225.9	84.7	-
2. Ethyl-β-D-glucuronide	0.78	500	220.9	74.9	85.0
3. Ethyl sulfate-d5	1.75	100	129.8	97.7	-
4. Ethyl sulfate	1.78	500	124.8	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 (cat.# 25809)
Temp.: 30 °C

Standard/Sample Ethyl-β-D-glucuronide (EtG) (cat.# 34101)
 Ethyl-β-D-glucuronide-d5 (EtG-d5) (cat.# 34102)
 Ethyl sulfate sodium salt (EtS) (cat.# 34103)
 Ethyl sulfate-d5 sodium salt (EtS-d5) (cat.# 34104)

Diluent: 0.1% Formic acid in water
Conc.: 500 ng/mL
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

Sample Preparation A 500 ng/mL standard was prepared in oral fluid. 50 μL of the standard was diluted with 950 μL of a working internal standard (100 ng/mL EtG-d5 and EtS-d5 in 0.1% formic acid in water). The sample was vortexed at 3000 rpm for 10 seconds to mix. The sample was then centrifuged at 3000 rpm for 10 minutes at 10 °C. The autosampler needle was adjusted to inject from the supernatant.