Stationary Phase: EtG/EtS

Matrix

Interference

1.2 1.4 1.6 1.8 2.0

EtS

2.2 2.4 2.6

Time (min)



Selectivity Accelerated

RESTEK

All Matrix Interferences Resolved

How often are matrix interferences affecting your EtG/EtS analysis? Restek's EtG/EtS solution consistently resolves analytes away from matrix interferences in a fast, 4-minute, dilute-and-shoot method.

Pure Chromatography

www.restek.com/raptor

Raptor EtG/EtS Column

- Proven performance for accurate, reliable ethyl glucuronide (EtG) and ethyl sulfate (EtS) analysis.
- Strong retention consistently resolves analytes from matrix interferences.
- Long column lifetime ensures consistent performance injection after injection.
- Fast, 4-minute, dilute-and-shoot LC-MS/MS analysis supports high sample throughput.

Switch to a Raptor EtG/EtS column when you need consistent resolution of EtG and EtS from matrix interferences and long column lifetimes.

Order yours today at www.restek.com/raptor

Part of Restek's Raptor LC column line featuring SPP core-shell silica:

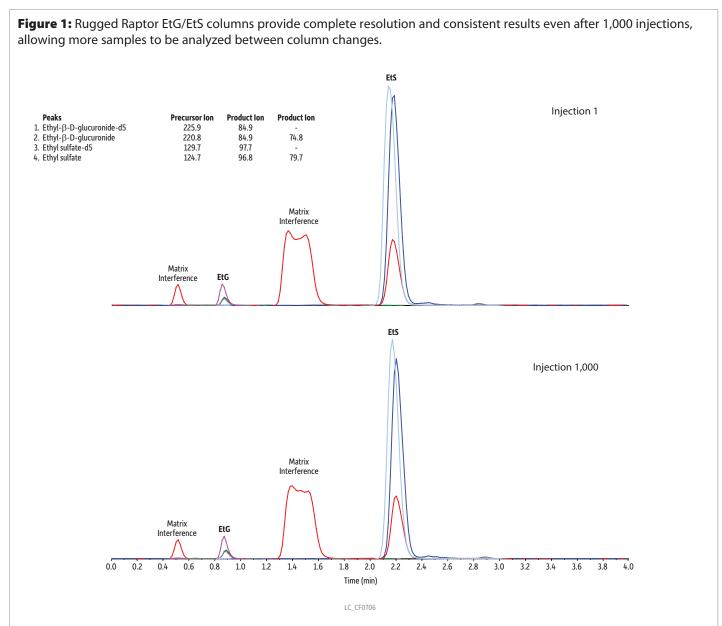
- Higher efficiency and resolution for drastically faster analysis times.
- Increased sample throughput with existing HPLC instrumentation
- Long-lasting ruggedness for dependable reproducibility.





Definitive Results for Alcohol Monitoring

Restek has developed a new Raptor column that significantly improves EtG and EtS analysis for alcohol monitoring programs. The Raptor EtG/EtS column consistently retains and resolves these important biomarkers from matrix interferences, providing accurate, reliable results injection after injection (Figure 1). Dependable performance, a fast 4-minute analysis, and long column lifetime make this column ideal for high-throughput labs. Paired with our quality reference standards and the optimized, validated method shown below, Restek's Raptor EtG/EtS column is part of a complete solution that will help testing labs save time and increase certainty.



Column: Raptor EtG/EtS (cat.# 9325A12); Dimensions: 100 mm x 2.1 mm ID, Particle Size: 2.7 µm; Guard Column: UltraShield UHPLC precolumn filter, 0.2 µm frit (cat.# 25809); Temp.: 35 °C; Sample: 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 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; Gradient (%B): 0.00 min (5% B), 2.50 min (35% B), 2.51 min (5% B), 4.00 (5% B); Flow: 0.5 mL/min; Detector: MS/MS; Ion Mode: ESI-; Mode: MRN; Instrument: HPLC; Notes: The following reference standards were used: 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).



Struggling with EtG/EtS matrix interferences? Here's your solution!

Raptor EtG/EtS LC Column



- Proven performance for accurate, reliable ethyl glucuronide (EtG) and ethyl sulfate (EtS) analysis.
- Strong retention consistently resolves analytes from matrix interferences.
- Long column lifetime ensures consistent performance injection after injection.
- Fast, 4-minute, dilute-and-shoot LC-MS/MS analysis supports high sample throughput.

| Description cat.# | | |
|-------------------|---------|--|
| 2.7 µm Columns | | |
| 100 mm, 2.1 mm ID | 9325A12 | |

UltraShield UHPLC PreColumn Filter

- Cost-effective protection for UHPLC systems.
- Reliable way to extend column lifetime.
- Universal fit—connects easily to any brand column.
- Leaktight to 15,000 psi (1,034 bar).
- 0.5 μm or 0.2 μm stainless steel frit in a stainless steel body with PEEK ferrule.

| | Filter | | | |
|------------------------------------|-------------|--------|-------|--|
| Description | Porosity | qty. | cat.# | |
| UltraShield UHPLC PreColumn Filter | 0.2 µm frit | ea. | 25809 | |
| | | 5-pk. | 25810 | |
| | | 10-pk. | 25811 | |

EtG and EtS Standards

- Alcohol metabolite biomarkers for monitoring alcohol consumption in urine samples.
- Available as unlabeled standards for instrument calibration and as deuterated internal standards for sample analysis.
- Verified composition and stability.
- Pair with Restek's definitive EtG/EtS method and Raptor EtG/EtS LC column for accurate, reliable results.

Ethyl-β-**D**-glucuronide (EtG)

Ethyl-β-D-glucuronide (EtG) (17685-04-0) 1,000 μg/mL in methanol, 1 mL/ampul

Ethyl-β-D-glucuronide-d5 (EtG-d5)

Ethyl-β-D-glucuronide-d5 (EtG-d5) (1135070-98-2) 1,000 μg/mL in methanol, 1 mL/ampul ca

cat.# 34102 (ea.)

cat.# 34101 (ea.)

Ethyl sulfate sodium salt (EtS)

Ethyl sulfate sodium salt (EtS) (546-74-7) 1,000 µg/mL in methanol, 1 mL/ampul

cat.# 34103 (ea.)

Ethyl sulfate-d5 sodium salt (EtS-d5)

Ethyl sulfate-d5 sodium salt (EtS-d5) (1329611-05-3) 1,000 μg/mL in methanol, 1 mL/ampul cat.# 34104 (ea.)

Experience *Selectivity Accelerated*. Order the Raptor EtG/EtS today at **www.restek.com/raptor**



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Lit. Cat.# CFSS2741A-UNV