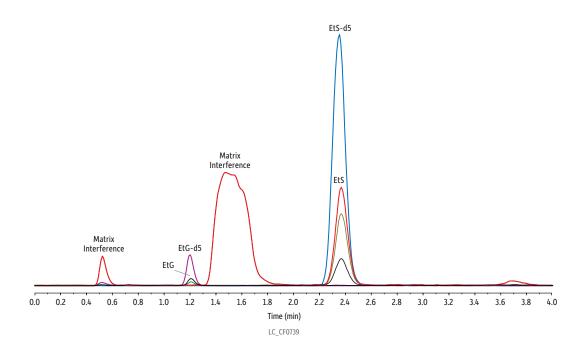
EtG/EtS on Raptor EtG/EtS: Updated Method Conditions (Mobile Phase and Gradient)



	Conc.				
Peaks	tr (min)	(ng/mL)	Precursor Ion	Product Ion	Product Ion
1. Ethyl-β-D-glucuronide-d5 (EtG-d5)	1.21	200	226.2	85.0	-
2. Ethyl-β-D-glucuronide (EtG)	1.23	500	221.2	75.1	85.1
3. Ethyl sulfate-d5 (EtS-d5)	2.36	50	130.1	98.0	-
4. Ethyl sulfate (EtS)	2.38	500	125.1	97.1	80.0

Column Raptor EtG/EtS (cat.# 9325A12)

Dimensions: 100 mm x 2.1 mm ID Particle Size: 2.7 µm

Pore Size:

UltraShield UHPLC precolumn filter, 0.2 µm frit (cat.# 25809) Guard Column: Temn ·

35°C

Standard/Sample Ethyl-β-D-glucuronide-d5 (EtG-d5) (cat.# 34102) Ethyl-β-D-glucuronide (EtG) (cat.# 34101)

Ethyl sulfate-d5 sodium salt (EtS-d5) (cat.# 34104) Ethyl sulfate sodium salt (EtS) (cat.# 34103) 0.01% Formic acid in water

Diluent:

500 ng/mL (40x acetonitrile precipitation sample prep) Conc.:

Inj. Vol.: Mobile Phase

0.01% Formic acid in water 0.1% Formic acid in acetonitrile

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	95	5
3.00	0.5	65	35
3.01	0.5	95	5
4.50	0.5	95	5

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

Sample Preparation

A 500 ng/mL standard was prepared in urine. A 50 µL aliquot was mixed with 10 µL of internal standard (20 μ g/mL EtG-d5 and 5 μ g/mL EtS-d5 in water) and 150 μ L of acetonitrile by vortexing at 3000 rpm for 10 seconds and centrifuged at 4300 rpm for 10 minutes at 10 °C. After centrifugation, 100 μ L of the supernatant was diluted with 900 μ L (40x dilution) of 0.01% formic acid in water. The sample was then vortexed at 3000 rpm for 10 seconds and injected for LC-MS/MS analysis.

