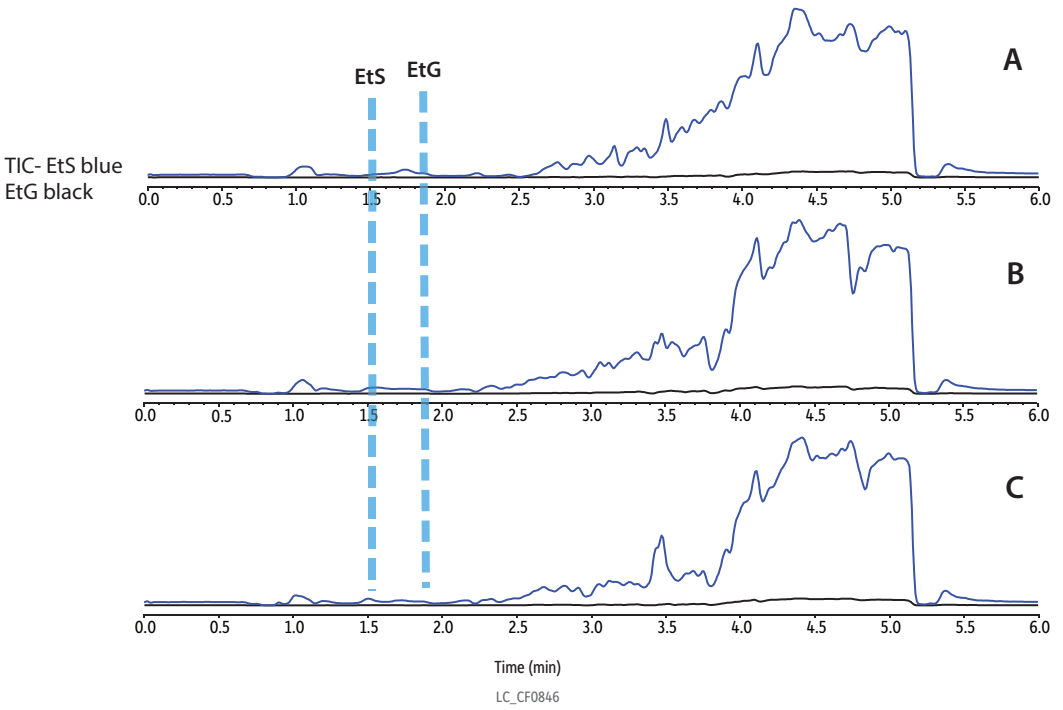
Ion Suppression Study



Peaks	Precursor	Product 1	Product 2
1. EtS	125.0	96.8	80.1
2. EtG	221.1	75.1	85.2

Column	Force Biphenyl (cat.# 962931E)
Dimensions:	100 mm x 3 mm ID
Particle Size:	3 µm
Pore Size:	100 Å
Guard Column:	Force Biphenyl EXP guard cartridge 5 mm, 3 mm ID, 3 µm (cat.# 962950253)
Temp.:	30 °C
Standard/Sample	
	Ethyl sulfate sodium salt (EtS) standard (cat.# 34103) Ethyl-beta-D-glucuronide (EtG) standard, 1000 µg/mL, methanol, 1 mL/ampul (cat.# 34101)
Diluent:	Water
Inj. Vol.:	10 µL
Mobile Phase	
A:	Water, 0.1% formic acid
B:	Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	100	0
0.50	0.6	100	0
3.00	0.6	5	95
4.00	0.6	0	100
4.01	0.6	100	0
6.00	0.6	100	0

Max Pressure:	427 bar
Detector	Shimadzu 8060 MS/MS
Ion Source:	Electrospray
Ion Mode:	ESI-
Mode:	MRM
Instrument	Shimadzu Nexera X2
Sample Preparation	Urine (100 µL) was aliquoted to an autosampler vial (cat.#21143) and water (900 µL) was added before the sample was capped (cat.#24498), vortexed for ~30 seconds, and 10 µL injected onto the LC-MS/MS for analysis. Simultaneous post-column infusion was performed infusing the analytes at a concentration of 1000 ng/mL.
Notes	An Ultra Shield UHPLC PreColumn Filter 0.2 µm frit (cat.#25811) was installed before the guard cartridge.