phenomenex®
...breaking with tradition℠

EtG / EtS from Urine on Luna Omega 5u Polar C18, 50x4.6mm

Column:	Luna Omega 5u Polar C18 100A, LC Column 50 x 4.6 mm, Ea
Dimensions:	50 x 4.6 mm ID
Order No:	00B-4754-E0
Elution Type:	Gradient
Eluent A:	0.1% Formic Acid in H2O
Eluent B:	0.1% Formic Acid in MeOH

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	2	40	60
	3	2.01	10	90
	4	3	10	90
	5	3.01	98	2
	6	4	98	2

Flow Rate:	1 mL/min
Col. Temp.:	25 °C
Detection:	Electrospray Mass Spec (ESMS) @ 0.0000000000 (550 °C)
Analyst Note:	MMA (117.0-->72.9; 117.0-->54.9)
	MMA-D3 (120.1-->75.9)

Products used in this application:

LUNA®
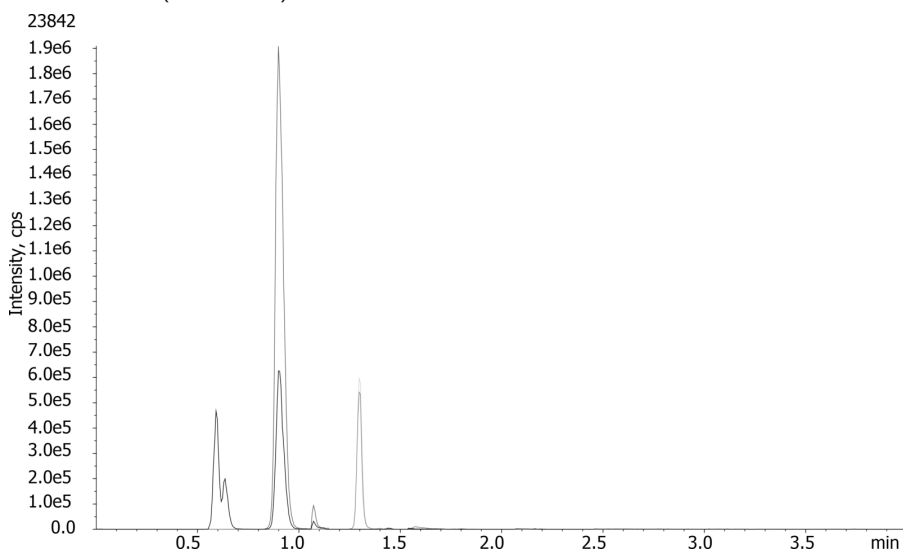
ANALYTES:

1 Interference
Retention Time: 0.593 min

2 Ethyl Sulfate (EtS)
Retention Time: 0.902 min

3 Ethyl Glucuronide (EtG)
Retention Time: 1.299 min

For more information contact your Phenomenex Representative at support@phenomenex.com

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PRODUCT DESCRIPTION:

Strata™-X-AW 33 µm Polymeric Weak Anion, 30 mg / 1 mL, Tubes , 100/Pk

Order No.: 8B-S038-TAK

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

5-10 min under high vacuum

Elute:

Final Prep and Analysis:

Inject: 0 µL on HPLC Electrospray Mass Spec (ESMS) @ 0.0000000000 (550°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Interference	0				
2 Ethyl Sulfate (EtS)	0				
3 Ethyl Glucuronide (EtG)	0				

Note: *This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.*
Call your local Phenomenex Representative for assistance in method development and optimization techniques.