GC Application ID No.: 23895



Barbiturates from urine by Strata X (60mg/3cc) (TIC)

Column:	Zebron™ ZB-Drug-1, GC Cap. Column 10 m x 0.18 mm x 0.18 µm, Ea					
Phase:	Proprietary Drug Phase					
Dimensions:	10 meters x 0.18 mm x 0.18 μm					
Order No:	7CD-G023-08					
Oven Profile:	145 °C to 300 °C @ 25 °C/min					
Carrier Gas: Constant Flow Helium, 0.6 mL/min						
Injection:	Split 10:1 1 µL @ 280°C					
Detection:	Mass Selective (MSD) (320°C)					

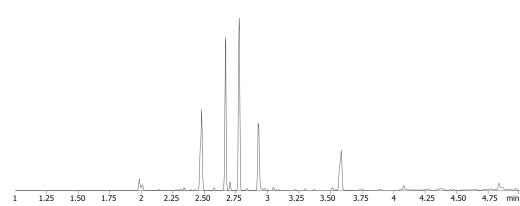
Analyst Note: Analytes are 300ng/mL in urine derivatized with TMPAH Sim ions: (Quant ion*) D5-Butalbital (*201,184,214): Butalbital (*196,181,138): Amobarbital (*169,184,225): Pentobarbital (*169,184,225): Secobarbital (*196,181,138): D5-Phenobarbital (*233,151,122): Phenobarbital



Products used in this application:



23895



ANALYTES:

- 1 Butalbital-d5
- Butalbital 2
- 3 Amobarbital
- 4 Pentobarbital
- Secobarbital 5
- Phenobarbital-d5 6
- 7 Phenobarbital

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support@phenomenex.com

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Barbiturates from urine by Strata X (60mg/3cc) (TIC)

PRODUCT DESCRIPTION:

Strata[™]-X 33 µm Polymeric Reversed Phase, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S100-UBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 60 mg bed mass.

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

Condition:

Load:

1mL of Urine + 1mL 20mM Potassium Phosphate pH 2.7

Wash:

Dry:

Dry column (5 minutes at > 10 inches Hg)

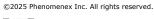
Elute:

Final Prep and Analysis:

Reconstitute with 100uL Acetonitrile and 50uL of Thermo Scientific MethElute Reagent (TS49301) Inject: 1 μ L on HPLC Mass Selective (MSD) @ _ (320°C)

ANALYTES:		Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1	Butalbital-d5	0				
2	Butalbital	0				
3	Amobarbital	0				
4	Pentobarbital	0				
5	Secobarbital	0				
6	Phenobarbital-d5	0				
7	Phenobarbital	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.



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