

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

Column: Zebtron™ 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: Refractive Index (320°C)

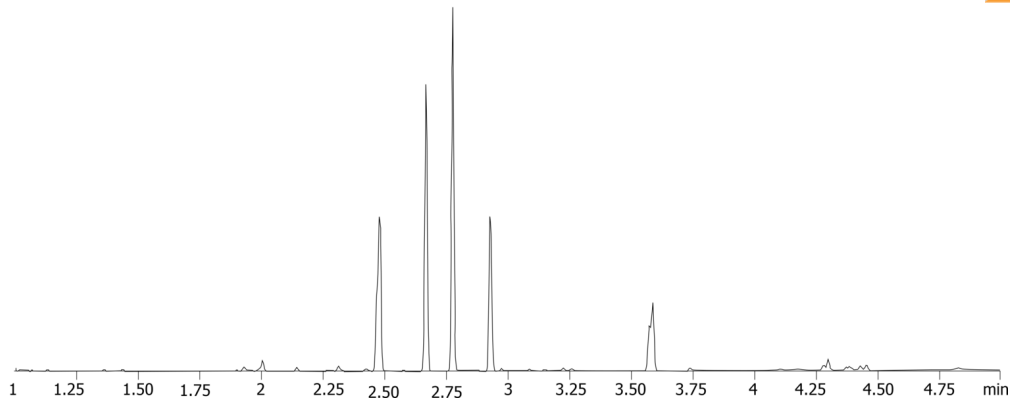
Analyst Note: Analytes are 300ng/mL in urine derivatized with TMPAH
Sim ions:
(Quant ion*) D5-Butalbital (*201,184,214): Butalbital (*196,181,138): Amobarbital (*169,184,225):
Pentobarbital (*169,184,225): Secobarbital (*196,181,138): D5-Phenobarbital (*233,151,122): Phenobarbital



Products used in this application:



23896

**ANALYTES:**

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



Sample Preparation Details

for GC Application ID No.: 23896

Barbiturates from Whole Blood 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) PROCEDURE:

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:

0.5mL of Whole Blood + 1.5mL of 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 µL on HPLC Refractive Index @ 0.0000000000 (320°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% 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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For more information contact your Phenomenex Representative at international@phenomenex.com.



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