# **GC Application** ID No.: **23896**



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

Zebron™ ZB-Drug-1, GC Cap. Column 10 m x 0.18 mm x 0.18 μm, Ea

Proprietary Drug Phase Phase:

**Dimensions:** 10 meters x 0.18 mm x 0.18  $\mu$ m

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

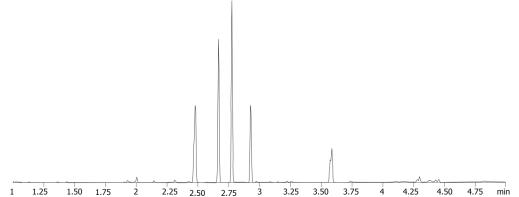
Guant ion\*) D5-Butalbital (\*201,184,214): Butalbital (\*196,181,138): Amobarbital (\*169,184,225): Pentobarbital (\*169,184,225): Secobarbital (\*196,181,138): D5-Phenobarbital (\*233,151,122): Phenobarbital

23896



Products used in this application:





### **ANALYTES:**

- Butalbital-d5
- 2 Butalbital
- 3 Amobarbital
- Pentobarbital 4
- Secobarbital
- Phenobarbital-d5 6
- Phenobarbital



# **Sample Preparation Details**

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) 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:
0.5mL of Whole Blood + 1.5mL of 20mM potassium phosphate pH 2.7
Wash.
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 Mass Selective (MSD) @ _ (320°C)

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

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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