

Benzodiazepines extracted using Strata Screen C 150mg/3cc from Blood (TIC)

Zebron™ ZB-5MSi, GC Cap. Column 10 m x 0.18 mm x 0.18 μm, Ea

5% Phenyl 95% Dimethylpolysiloxane Phase: **Dimensions:** 10 meters x 0.18 mm x 0.18 μ m

Order No: 7CD-G018-08

Oven Profile: 200 to 340 over 25C/min hold for 1 minute

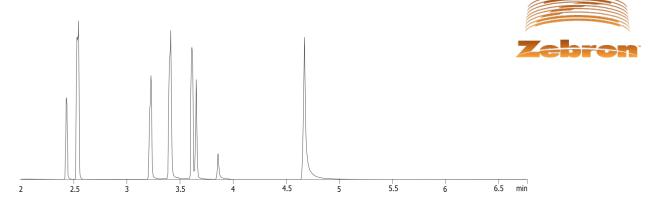
Carrier Gas: Constant Flow Helium, 17.2 mL/min

Injection: Split 20:1 1 µL @ 260°C

Detection: Mass Spectrometer (MS) (320°C)



Products used in this application:





GC Application ID No.: **23894**



Benzodiazepines extracted using Strata Screen C 150mg/3cc from Blood (TIC) **ANALYTES:**

- 1 Diazepam
- 2 D5-Nordiazepam
- 3 Nordiazepam
- D5-Oxazepam
- Oxazepam
- 6 D5-Temazepam
- 7 Temazepam
- Clonazepam
- 9 Lorazepam
- 10 Alprazopam
- 11 D5-alpha-Hydroxyalprazolam
- 12 Alpha-Hydroxyalprazolam

Sample Preparation Details

Application ID No.: 23894



Benzodiazepines extracted using Strata Screen C 150mg/3cc from Blood (TIC)

PRODUCT DESCRIPTION:

Strata® Screen-C (55 µm, 70 Å), 150 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S016-SBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 150 mg bed mass.

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

Condition:
Load:
1mL of Whole Blood + 3mL of 100mM Potassium Phosphate pH 6.0
Wash:
Dry:
Dry for 5 mins at 15" Hg
Elute:
Final Prep and Analysis:
Reconstitute in 100uL Ethyl Acetate and 50uL MTBSTFA; Cap and incubate @ 60C for 20minutes then transfer to amber vial with insert. Inject 1uL.

Inject: 1 µL on HPLC Mass Spectrometer (MS) @ amu (320°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Diazepam	0				
2 D5-Nordiazepam	0				
3 Nordiazepam	0				
4 D5-Oxazepam	0				
5 Oxazepam	0				
6 D5-Temazepam	0				
7 Temazepam	0				
8 Clonazepam	0				
9 Lorazepam	0				
10 Alprazopam	0				
11 D5-alpha-Hydroxyalprazolam	0				
12 Alpha-Hydroxyalprazolam	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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For more information contact your Phenomenex Representative at support@phenomenex.com

