# **GC Application** ID No.: **23893**



### Benzodiazepines extracted using Strata Screen C 150mg/3cc from Urine (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  $\mu$ 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:



6.5 min

5.5

# **GC Application** ID No.: **23893**



### Benzodiazepines extracted using Strata Screen C 150mg/3cc from Urine (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.: 23893



#### Benzodiazepines extracted using Strata Screen C 150mg/3cc from Urine (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:	
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 fo then transfer to amber vial with insert. Inject 1uL.	r 20minutes

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

ANALYTES:		Spiked Conc.	Log P	рКа	% Rec	%RSC
		(ng/mL)				(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.

©2025 Phenomenex Inc. All rights reserved.

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



Phenomenex products are available worldwide.

www.phenomenex.com support@phenomenex.com