Waters™

Application Note

CNS Depressants

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of CNS depressants.

Introduction

Compounds studied in this application brief are shown below.

Experimental

Compounds

Column:	SunFire C ₁₈ 4.6 x 150 mm, 5.0 µm (p/n:
	186002559)

Mobile phase A: Water

Mobile phase B: Acetonitrile

Mobile phase C: 2% CH₃COOH in water

Flow rate: 1 mL/min

Injection volume: 10 μ L

Isocratic Mobile Phase Conditions: 55% A, 35% B, 10% C

Sample concentration: 10 μ g/mL in water

Temperature: 30 °C

Detection: UV @ 254 nm

Instrument: Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.08
2. Lorazepam	1.06
3. Desmethyldiazepam	1.05
4. Temazepam	1.07
5. Diazepam (Valium)	1.04

Compounds

Column: SunFire C_8 4.6 x 150 mm, 5.0 μ m (p/n:

186002737)

Mobile phase A: Water

Mobile phase B: Acetonitrile

Mobile phase C: 2% Acetic acid in water

Flow rate: 1 mL/min

Injection volume: 10 μ L

Isocratic Mobile Phase Conditions: 55% A, 35% B, 10% C

Sample concentration: 10 μ g/mL in water

Temperature: 30 °C

Detection: UV @ 254 nm

Instrument: Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.02
2. Lorazepam	0.95
3. Desmethyldiazepam	1.00
4. Temazepam	1.00
5. Diazepam (Valium)	0.99

Compounds

Column: SunFire C_8 4.6 x 100 mm, 5.0 μ m (p/n:

186002731)

Mobile phase A: Water

Mobile phase B: Acetonitrile

Mobile phase C: 2% Acetic acid in water

Flow rate: 1 mL/min

Injection volume: 10 μ L

Isocratic Mobile Phase Conditions: 55% A, 35% B, 10% C

Sample concentration: 10 μ g/mL in water

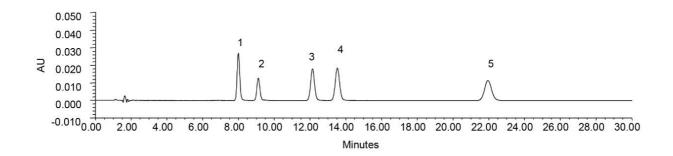
Temperature: 30 °C

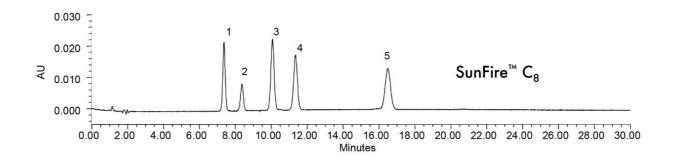
Detection: UV @ 254 nm

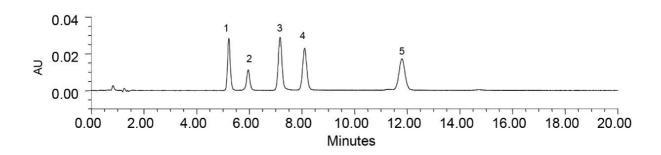
Instrument: Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.09
2. Lorazepam	0.96
3. Desmethyldiazepam	1.02
4. Temazepam	1.06
5. Diazepam (Valium)	1.06

Results and Discussion







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Alliance HPLC https://www.waters.com/514248

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