Waters™

Drugs of Abuse, pH 10.0 – 2.1 x 20 mm Intelligent Speed Separation

Waters Corporation



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

Abstract

This application brief demonstrates analysis of drugs of abuse.

Introduction

The compounds used in this study are -

Compounds	
1. 3,4-Methylenedioxyamphetamine (MDA)	40 μg/mL
2. 3,4-Methylenedioxymethamphetamine (MDMA)	40 μg/mL
3. Alprazolam	20 μg/mL
4. Flunitrazepam	20 μg/mL
5. Desmethyldiazepam	20 μg/mL
6. Diazepam	20 μg/mL

3,4-Methylenedioxyamphetamine

Alprazolam

Desmethyldiazepam

N 0

3,4-Methylenedioxymethamphetamine

$$O_2N$$

Flunitrazepam

Diazepam

Experimental

Conditions

Column: Xterra RP₁₈, 2.1 x 20 mm \emph{IS} , 3.5 μ m, (p/n:

186001925)

Mobile phase A: Water

Mobile phase B: Acetonitrile

Mobile phase C: $100 \text{ mM NH}_4\text{HCO}_3$, pH 10

Flow rate: 0.8 mL/min

Injection volume: $5 \mu L$

Sample concentration: MDA and MDMA 40 μ g/mL, all others 20 μ g/mL

Temperature: 50 °C

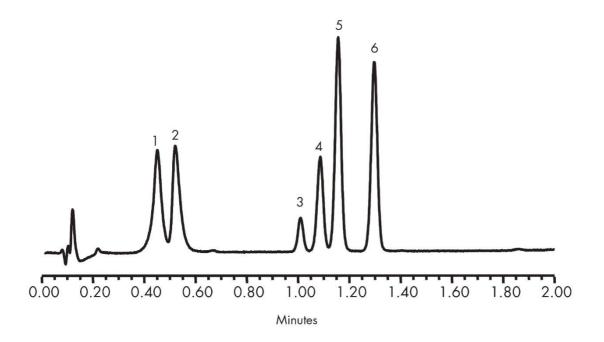
Detection: UV @ 235 nm

Instrument: Alliance 2795 with 996 PDA

Gradient

Time	Profile		
(min)	%A	%B	%C
0.0	80	10	10
2.0	5	95	10

Results and Discussion



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Alliance HPLC System https://www.waters.com/534293

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