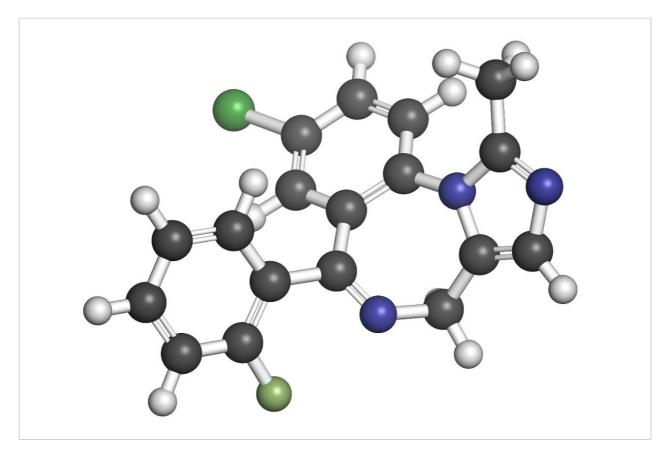
Waters™

응용 자료

Midazolam on Oasis MCX

Waters Corporation



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

Abstract

This application brief demonstrates the analysis of midazolam on Oasis MCX.

Introduction

Midazolam is used to produce sleepiness or drowsiness and to relieve anxiety before surgery or certain procedures. In this example, the sample size was limited (less than 100 uL of plasma) and therefore the Oasis μ Elution plate was used.

Weak Base: pKa \sim 6.15 and therefore Oasis MCX was used.



Experimental

Test Conditions

Oasis MCX 96-Well μ Elution Plate

Condition:	200 μL MeOH
Equilibrate:	200 μL H ₂ O
Load:	100 μL sample (50 μL plasma diluted 1:1 with 4% $H_{3} PO_{4})$
Wash 1:	200 μL 2% HCOOH
Wash 2:	200 µL MeOH
Elute:	50 μL (25 μL x 2) 5% $\rm NH_4OH$ in MeOH
Dilute:	100 μL H_2O or 100 μL 2% FA in H_2O to neutralize
Inject:	10 µL
Column:	SunFire C ₁₈ 2.1 x 20 mm IS, 3.5 μm
Mobile phase A:	10 mM CH ₃ COO-NH ₄ +, pH 5.5
Mobile phase B:	MeOH with 10 mM CH ₃ COO-NH ₄ +, pH 5.5
Flow rate:	0.4 mL /min
Instrument:	2777 Sample Manager and 1525µ Binary HPLC Pump

Gradient

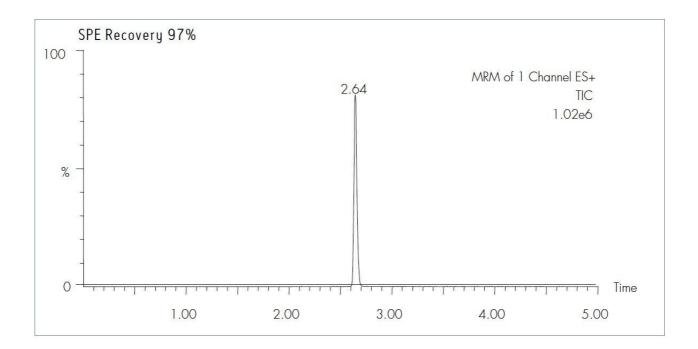
Time(min)	Profile	
	%A	%В
0.0	95	5
3.0	5	95
4.0	5	95
4.1	95	5
5.0	95	5

Quattro Premier

ESI- source temp:	150 °C
Desolvation temp:	350 °C
Cone gas flow:	50 L /Hr
Desolvation gas flow:	600 L /Hr
Collision cell:	2.2e ⁻³ bar (Ar gas)
Midazolam	MRM Transition

m/z 326.2 \rightarrow 291.2

Results and Discussion



WA60087, June 2007

© 2021 Waters Corporation. All Rights Reserved.