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Application Note

Diphenhydramine - pH 9.5, LC-MS

Waters Corporation



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

Abstract

This application brief demonstrates analysis of diphenhydramine by LC-MS.

Introduction

The compound analyzed in this study is diphenhydramine.

Diphenhydramine

Experimental

Conditions

Column: Xterra MS C_{18} 2.1 x 30 mm, 3.5 μm

Part number: 186000398

Mobile phase A: $0.1\% \text{ NH}_4\text{OH in H}_2\text{O}$

Mobile phase B: 0.1% NH₄OH in ACN

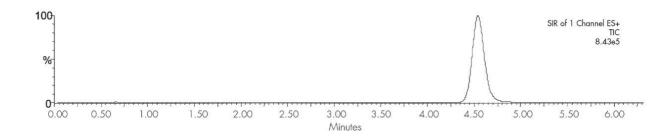
Flow rate:	0.2 mL/min to MS
Isocratic mobile phase composition:	55% A; 45% B
Injection volume:	20 μL of 100 pg/μL
Temperature:	Ambient
Detection:	MS ESI ⁺ , SIR 256.12
Instrument:	Alliance 2795 HT, Micromass ZQ
MS Conditions	
Micromass ZQ ESI ⁺	
Capillary (KV):	3.0
Cone (V):	15
Extractor:	3.0
RF lens:	0.5
Source temp.:	150
Desolvation temp.:	350
Cone gas flow (L/Hr):	60
Desolvation gas flow (L/Hr):	500
LM resolution:	15
HM resolution:	15

Micromass ZQ ESI+

Ion energy: 1.0

Multiplier (V): 650

Results and Discussion



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

WA20738.040, June 2002

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