Waters™

Applikationsbericht

Diphenhydramine - pH 9.5, LC-MS

Waters Corporation

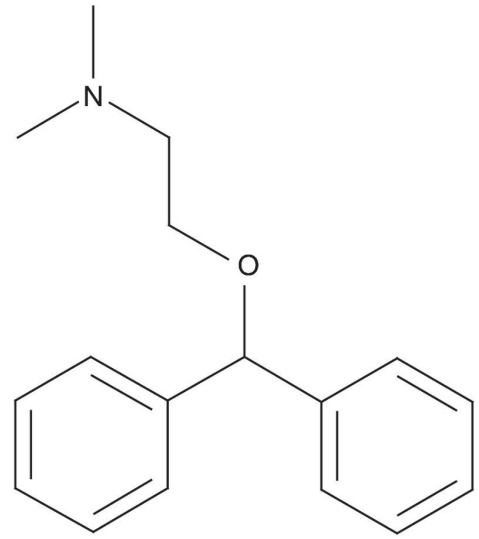
This is an Application Brief and does not contain a detailed Experimental section.

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% NH_4OH in H_2O
Mobile phase B:	0.1% NH_4OH 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

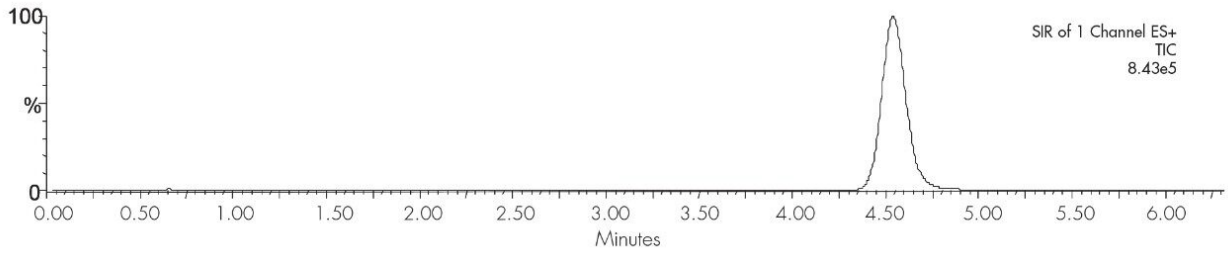
Micromass ZQ ESI^+

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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