

Diphenhydramine - pH 2.5, LC-MS

Waters Corporation



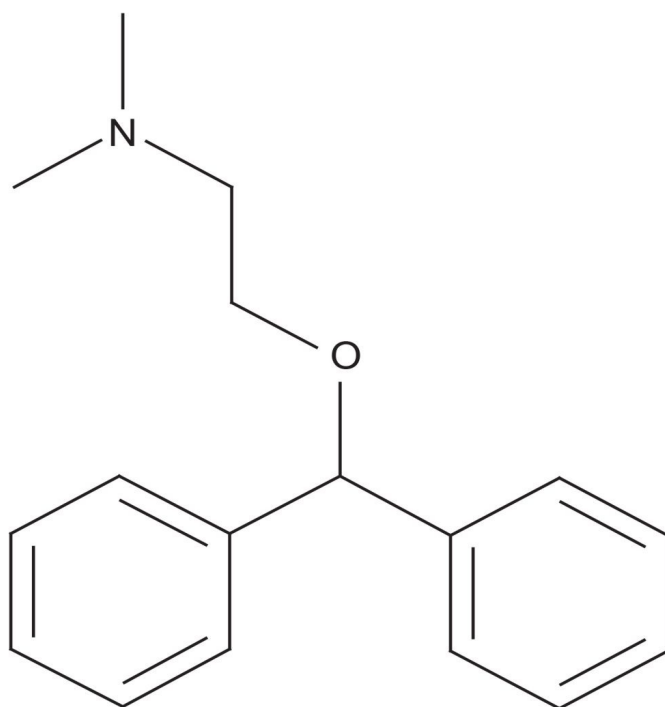
This is an Application Brief and does not contain a detailed Experimental section.

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 C₁₈ 2.1 x 30 mm, 3.5 μm

Part number: 186000398

Mobile phase A:	0.1% HCOOH in H ₂ O
Mobile phase B:	0.1% HCOOH in ACN
Flow rate:	0.2 mL/min to MS
Isocratic mobile phase composition:	80% A; 20% 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

Micromass ZQ ESI⁺

Desolvation gas flow (L/Hr): 500

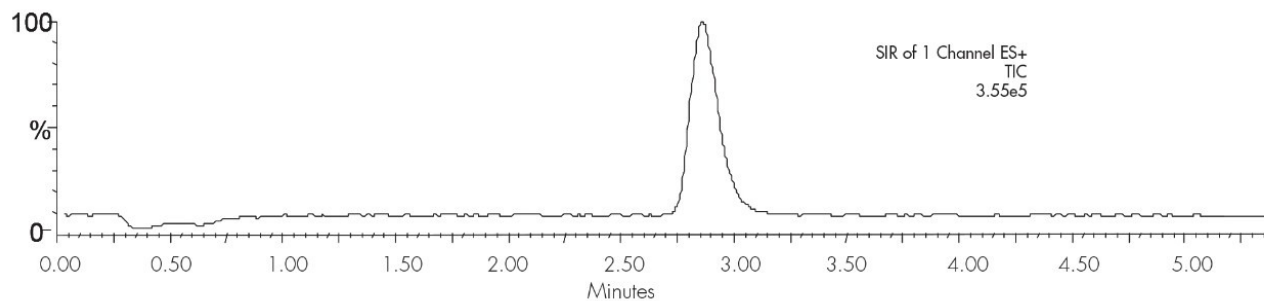
LM resolution: 15

HM resolution: 15

Ion energy: 1.0

Multiplier (V): 650

Results and Discussion



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· [Alliance HPLC System <https://www.waters.com/534293>](https://www.waters.com/534293)

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