



## Diphenhydramine - pH 9.5, LC-MS

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Waters Corporation



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

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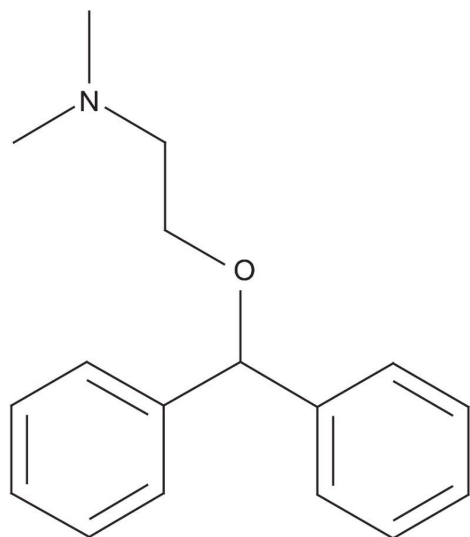
## Abstract

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

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## Introduction

The compound analyzed in this study is diphenhydramine.



## Diphenhydramine

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## Experimental

### Conditions

Column:	Xterra MS C <sub>18</sub> 2.1 x 30 mm, 3.5 μm
Part number:	186000398
Mobile phase A:	0.1% NH <sub>4</sub> OH in H <sub>2</sub> O
Mobile phase B:	0.1% NH <sub>4</sub> OH 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 <sup>+</sup> , SIR 256.12
Instrument:	Alliance 2795 HT, Micromass ZQ

## MS Conditions

Micromass ZQ ESI<sup>+</sup>

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

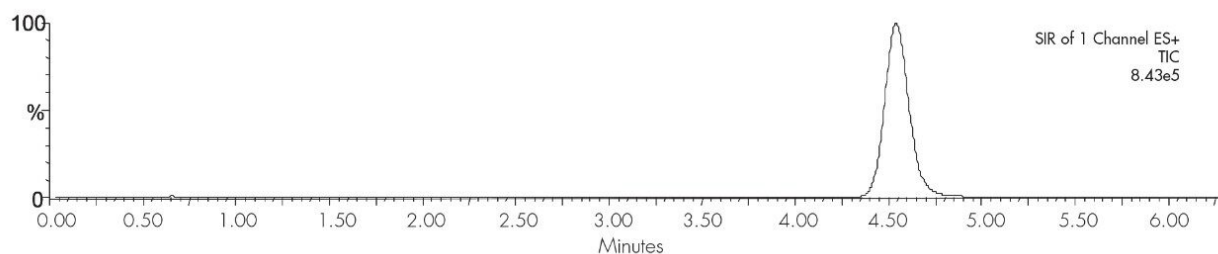
Micromass ZQ ESI<sup>+</sup>

Ion energy: 1.0

Multiplier (V): 650

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## Results and Discussion



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

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