

Diphenhydramine - LC/UV

Waters Corporation



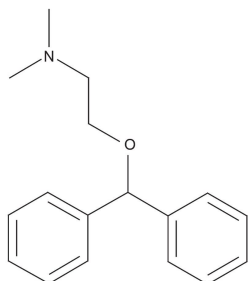
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of diphenhydramine using XTerra RP₁₈ columns.

Introduction

Diphenhydramine has been analyzed using LC/UV in this study.



Diphenhydramine

Experimental

HPLC Conditions

Column:	XTerra RP ₁₈ 4.6 x 150 mm, 5 μm (p/n: 186000492)
Mobile phase:	At pH 3.0: H ₂ O/ACN/100 mM, NH ₄ COOH, pH 3.0, 40: 50: 10 At pH 7.0: H ₂ O/ACN/100 mM, NH ₄ HCO ₃ , pH 7.0, 50: 40: 10 At pH 10.0 H ₂ O/ACN/100 mM, NH ₄ HCO ₃ , pH 10.0, 20: 70: 10
Flow rate:	1.0 mL/min
Injection volume:	5 μL of 250 μg/mL
Temperature:	30 °C

Detection:

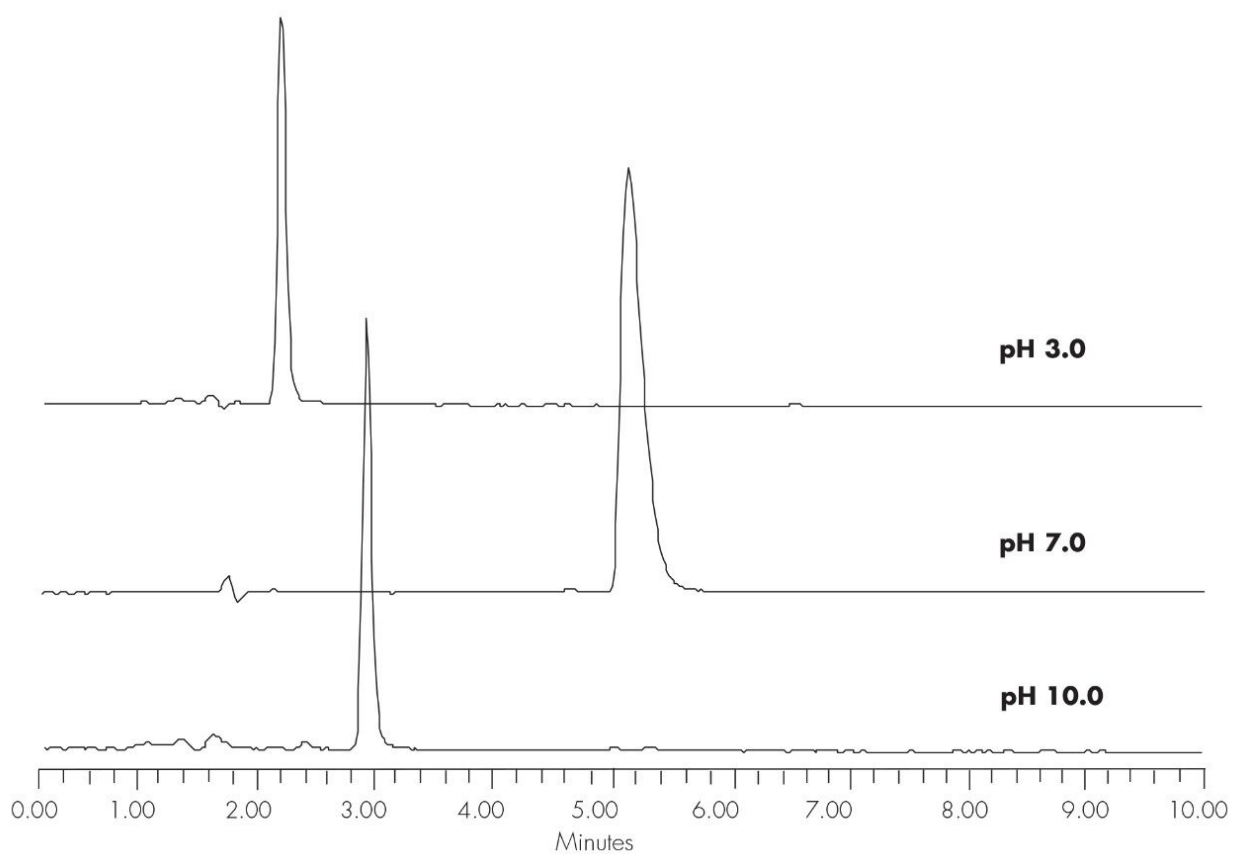
UV @ 260 nm

Instrument:

Alliance 2695, 2996 PDA

Mobile Phase pH	USP Tailing
3.0	1.25
7.0	1.70
10.0	1.18

Results and Discussion



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