Waters™

Nota de aplicación

Diphenhydramine - LC/UV

Waters Corporation



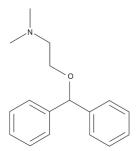
This is an Application Brief and does not contain a detailed Experimental section.

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 μ m (p/n:

186000492)

Mobile phase: At pH 3.0: H₂O/ACN/100 mM, NH₄COOH, pH

3.0, 40: 50: 10

At pH 7.0: H₂O/ACN/100 mM, NH₄HCO₃, pH 7.0,

50: 40: 10

At pH 10.0 H₂O/ACN/100 mM, NH₄HCO₃, pH

10.0, 20: 70: 10

Flow rate: 1.0 mL/min

Injection volume: 5 μ L of 250 μ g/mL

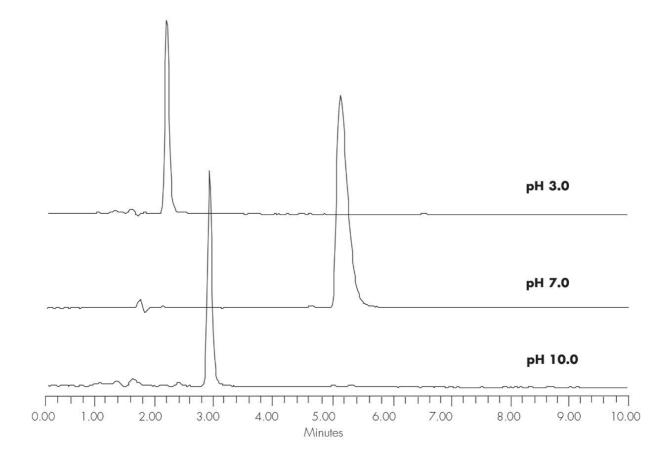
Temperature: 30 °C

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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