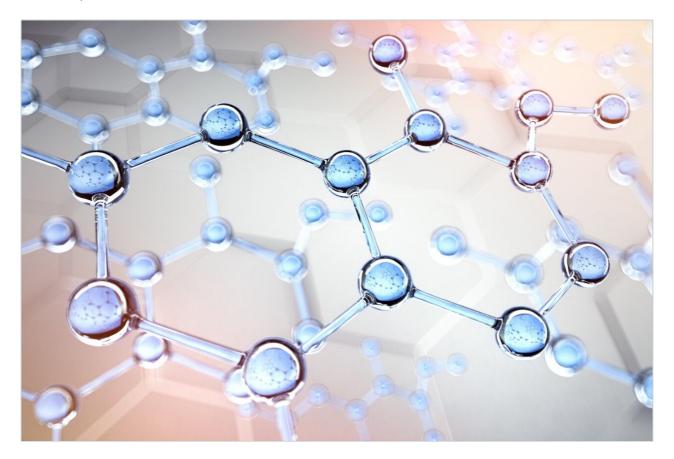
Waters™

Note d'application

Hydrophobic Bases: Group of Antihistamines

Waters Corporation



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

Abstract

This application brief highlights the analysis of hydrophobic bases.

Introduction

Compounds used in this application brief are shown below.

Diphenhydramine

Triprolidine

Experimental

Conditions

Column: SunFire C_{18} 4.6 x 150 mm, 5.0 μ m (p/n:

186002559)

Mobile phase A: Water

Mobile phase B: Acetonitrile

Mobile phase C: 1% HCOOH in water

Flow rate: 1 mL/min

Injection volume:	10 μL
Sample concentration:	10 μg/mL in water;
	Diphenhydramine: 50 µg/mL
Temperature:	30 °C
Detection:	UV @ 254 nm

Instrument: Alliance 2695 with 2996 PDA

Compounds	USP tailing	
1. Chlorpheniramine	1.15	
2. Triprolidine	1.16	
3. Diphenhydramine	1.75	

Conditions

Column:	SunFire C_8 4.6 x 150 mm, 5.0 μ m (p/n:
	186002737)
Mobile phase A:	Water
M I II - B	
Mobile phase B:	Acetonitrile
Mobile phase C:	1% HCOOH in water
Flow rate:	1 mL/min
Injection volume:	10 µL

	Diphenhydramine: 50 µg/mL	
Temperature:	30 °C	
Detection:	UV @ 254 nm	
Instrument:	Alliance 2695 with 2996 PDA	
Compounds	USP Tailing	
Chlorpheniramine	1.01	
Triprolidine	1.1	
Diphenhydramine	2.17	
Conditions		
Column:	SunFire C ₈ 4.6 x 100 mm, 5.0 μm (p/n: 186002731)	
Mobile phase A:	Water	
Mobile phase B:	Acetonitrile	
Mobile phase C:	1% HCOOH in water	
Flow rate:	1 mL/min	
Injection volume:	10 μL	
Sample concentration:	10 μg/mL in water;	

10 µg/mL in water;

Sample concentration:

Diphenhydramine: $50 \mu g/mL$

Temperature: 30 °C

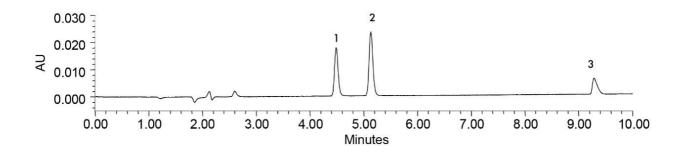
Detection: UV @ 254 nm

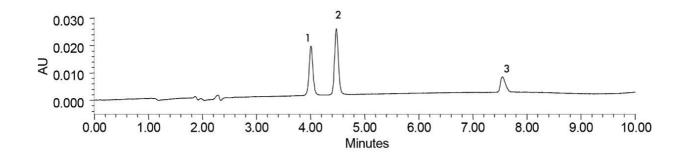
Instrument: Alliance 2695 with 2996 PDA

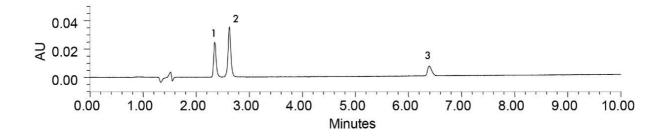
Compounds	USP tailing
1. Chlorpheniramine	1.21
2. Triprolidine	1.05
3. Diphenhydramine	1.31

Gradient

Time	Profile			Profile		
(min)	%A	%B	%C			
0.0	75	15	10			
10.0	60	30	10			
12.0	75	15	10			
20.0	75	15	10			







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WA41892, May 2005

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