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Analysis of Warfarin, Dextromethorphan, Triprolidine, and Tetracaine using XBridge Shield RP_{18}

Waters Corporation



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

Abstract

This application brief highlights the analysis of warfarin, dextromethorphan, triprolidine, and tetracaine using XBridge Shield RP₁₈ columns.

Introduction

Warfarin, an anti-coagulants old as coumadin, is used to inhibit the synthesis of clotting factors.

Dextromethorphan is an antitussive drug found in many common cold and cough formulations. Triprolidine is an antihistamine that is found in common allergy formulations. Tetracaine is a local anesthetic of the esterlinkage type, related to procaine.

1. Warfarin

2. Dextromethorphan HCl

3. Triprolidine HCl

4. Tetracaine

Experimental

Test Conditions

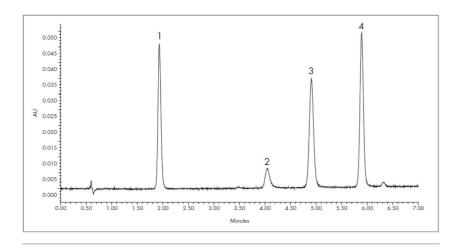
Columns:		XBridge Shield RP18 4.6 X 50 mm, 3.5 µm p/n: 186003042		
Mobile phase A:		25 mM KH ₂ PO ₄ , pH 7		
Mobile phase B:		MeOH		
Flow rate:		1.0 mL/min		
Injection volume:		10 µL		
Sample Concentration and Diluent:		10 μg/mL in H ₂ O		
Temp.:		30 °C		
Sampling Rate:		5 points /second		
Detection:		UV @ 280 nm		
Time Constant:		1.0		
Needle Wash:		5/95 MeOH/H ₂ O		
Instrument:		Alliance 2695 with 2996 PDA		
Gradient				
Time(min)	%A		%В	
0.0	60		40	
7.0	20		80	
7.5	60		40	

Time(min)	%A	%B	
10.0	60	40	

System Suitability Parameters

	Retention Time (min)	USP Tailing Factor	Width at 4.4%	USP Resolution
Warfarin	1.93	1.11	0.147	
Dextromethorphan HCl	4.04	1.23	0.192	15.35
Triprolidine HCl	4.90	1.05	0.216	5.32
Tetracaine	5.89	1.02	0.183	6.52

Results and Disscussion



Compounds: 1. Warfarin 2. Dextromethorphan HCl 3. Triprolidine HCl

4. Tetracaine.

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