

ANALYSIS OF WARFARIN, DEXTROMETHORPHAN, TRIPROLIDINE AND TETRACAINE USING XBRIDGE SHIELD RP18

TEST CONDITIONS:

Column: XBridge™ Shield RP18, 4.6 X 50 mm, 3.5 μ m
Part Number 186003042

Mobile Phase A: 25 mM KH₂PO₄, pH 7

Mobile Phase B: MeOH

Flow Rate: 1.0 mL/min

Gradient: Time Profile
(min) %A %B
0.0 60 40
7.0 20 80
7.5 60 40
10.0 60 40

Injection Volume: 10 μ L

Sample Concentration

and Diluent: 10 μ g/mL in H₂O

Temperature: 30 °C

Detection: UV @ 280

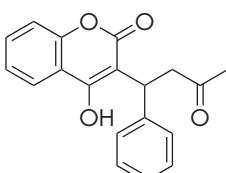
Sampling Rate: 5 points/second

Time Constant: 1.0

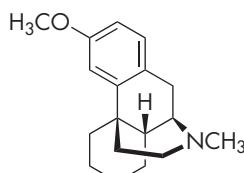
Needle Wash: 5/95 MeOH/H₂O

Instrument: Alliance® 2695 with 2996 PDA

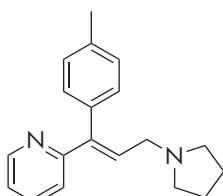
COMPOUNDS:



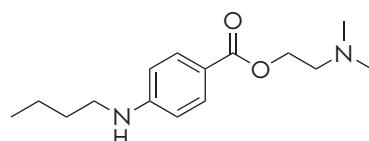
1. Warfarin



2. Dextromethorphan HCl



3. Triprolidine HCl

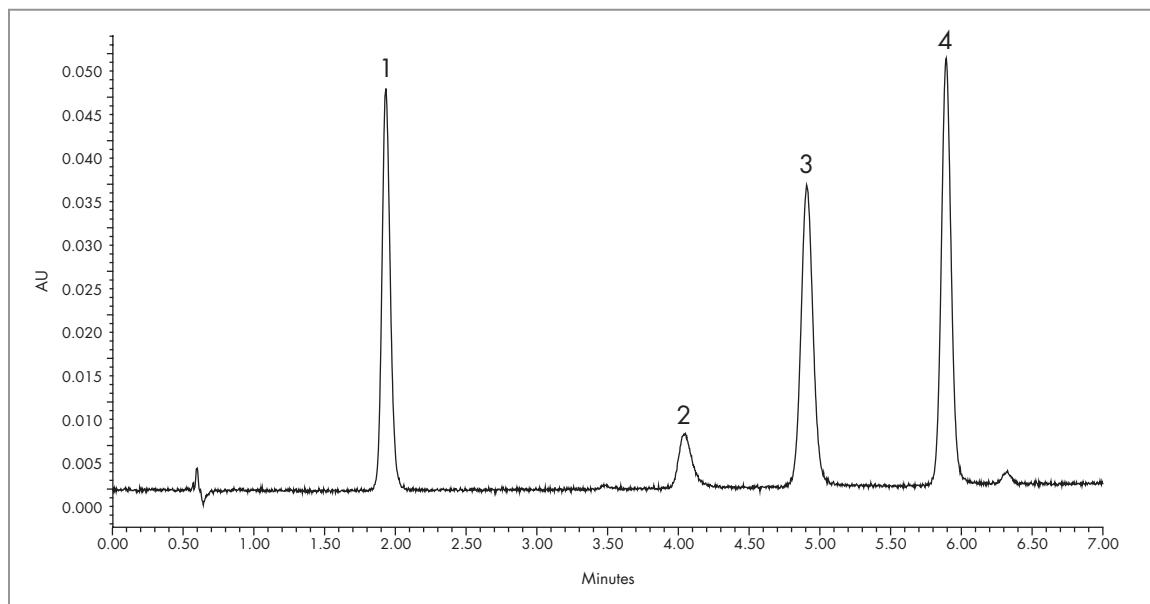


4. Tetracaine

Warfarin, an anti-coagulant sold 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 ester-linkage type, related to procaine.

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



Compounds:

1. Warfarin
2. Dextromethorphan HCl
3. Triprolidine HCl
4. Tetracaine

[APPLICATION NOTE]

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