



Sulfonamides:- SunFire Intelligent Speed Separation

Waters Corporation



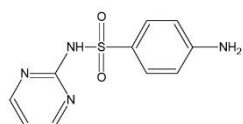
Abstract

This application brief demonstrates analysis of sulfonamides by sunfire intelligent speed separation.

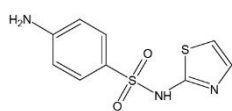
Introduction

The compounds used in this study are -

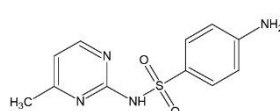
Compounds	USP tailing
1. Sulfadiazine	1.13
2. Sulfathiazole	1.05
3. Sulfamerazine	1.09
4. Sulfadimidine	1.05
5. Sulfamethoxazole	1.02
6. Sulfisoxazole	1.01
7. Sulfadimethoxine	1.04



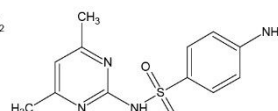
Sulfadiazine



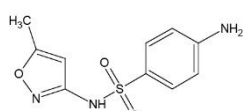
Sulfathiazole



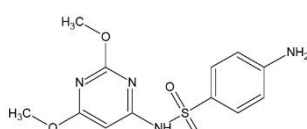
Sulfamerazine



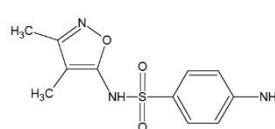
Sulfadimidine



Sulfamethoxazole



Sulfadimethoxine



Sulfisoxazole

Experimental

Column: SunFire C₁₈ 4.6 x 20 mm *IS*, 3.5 µm

Part number: 186002549

Mobile phase A: 0.1% HCOOH in Water

Mobile phase B: 0.1% HCOOH in MeOH

Flow rate: 3.0 mL/min

Injection volume: 10 µL

Sample concentration: 10 µg/mL in water

Temperature: 30 °C

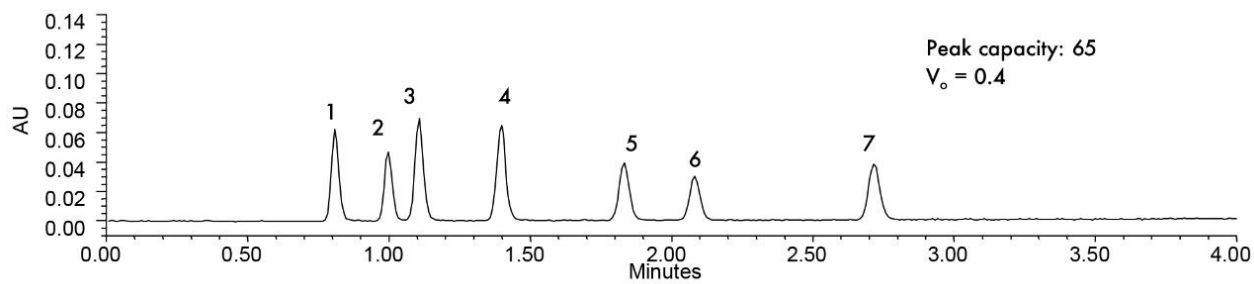
Detection: UV @ 254 nm

Instrument: Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	100	0
4.0	50	50

Results and Discussion



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