

Sulfonamides:- SunFire Intelligent Speed Separation

Waters Corporation



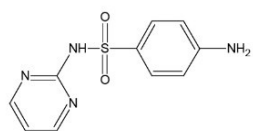
Abstract

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

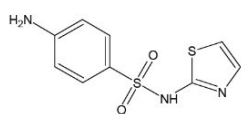
Introduction

The compounds used in this study are -

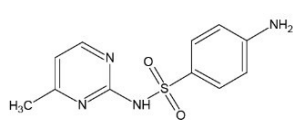
Compounds	USP tailing
1. Sulfadiazine	1.13
2. Sulfathiazole	1.05
3. Sulfamerazine	1.09
4. Sulfadimidine	1.05
5. Sulfamethoxazole	1.02
6. Sulfisoxazole	1.01
7. Sulfadimethoxine	1.04



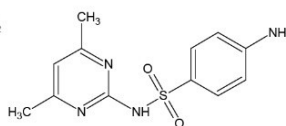
Sulfadiazine



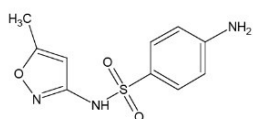
Sulfathiazole



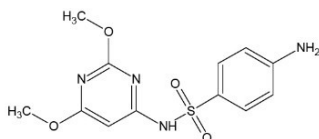
Sulfamerazine



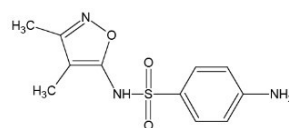
Sulfadimidine



Sulfamethoxazole



Sulfadimethoxine



Sulfisoxazole

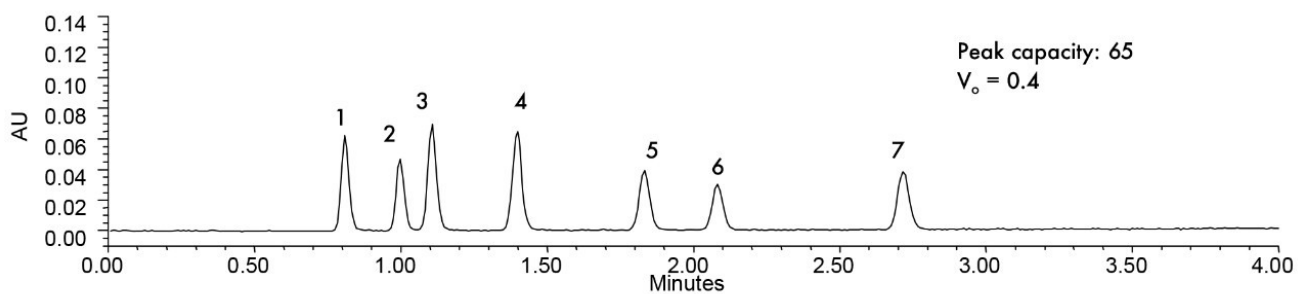
Experimental

Column:	SunFire C ₁₈ 4.6 x 20 mm <i>IS</i> , 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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· [Alliance HPLC System <https://www.waters.com/534293>](https://www.waters.com/534293)

WA41901, May 2005



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