# Waters™

Application Note

# 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

## Experimental

Column: SunFire  $C_{18}$  4.6 x 20 mm /S, 3.5  $\mu$ m

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  $\mu$ L

Sample concentration: 10  $\mu$ g/mL in water

Temperature: 30 °C

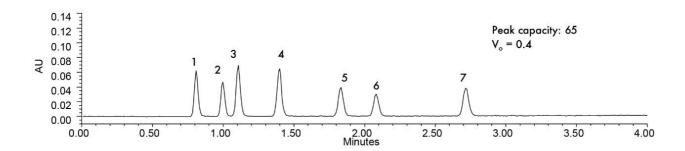
Detection: UV @ 254 nm

Instrument: Alliance 2695 with 2996 PDA

#### Gradient

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

#### Results and Discussion



#### Featured Products

Alliance HPLC System <a href="https://www.waters.com/534293">https://www.waters.com/534293</a>

WA41901, May 2005

© 2021 Waters Corporation. All Rights Reserved.