

Sulfonamides – 4.6 x 20 mm Intelligent Speed Separation

Waters Corporation



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

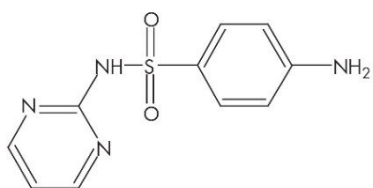
Abstract

This application brief demonstrates analysis of Sulfonamides.

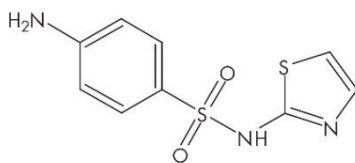
Introduction

The compounds analyzed in this study are:

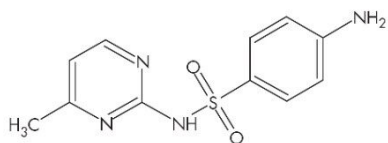
1. Sulfadiazine
2. Sulfathiazole
3. Sulfamerazine
4. Sulfadimidine
5. Sulfamethoxazole
6. Sulfisoxazole
7. Sulfadimethoxine



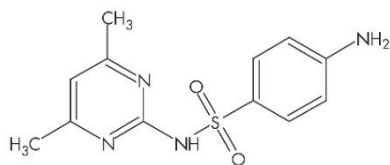
Sulfadiazine



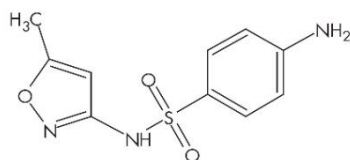
Sulfathiazole



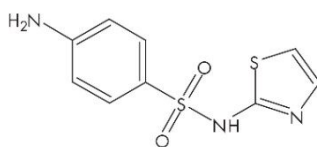
Sulfamerazine



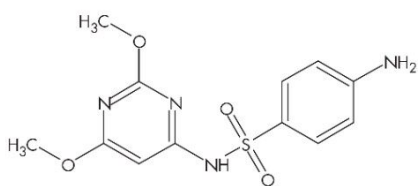
Sulfadimidine



Sulfamethoxazole



Sulfisoxazole



Sulfadimethoxine

Experimental

Conditions

Columns:

Atlantis dC₁₈, 4.6 x 20 mm IS, 3 µm,
(P/N:186002062)

Symmetry C₁₈, 4.6 x 20 mm IS, 3.5 µm,
(P/N:186002090)

Symmetry Shield RP₁₈, 4.6 x 20 mm IS, 3.5 µm,
(P/N:186002092)

XTerra MS C₁₈, 4.6 x 20 mm IS, 3.5 µm,
(P/N:186001891)

XTerra RP₁₈, 4.6 x 20 mm IS, 3.5 µm,
(P/N:186001893)

Mobile phase A: 0.1% HCOOH in Water

Mobile phase B: 0.1% HCOOH in Methanol

Flow rate: 3.0 mL/min

Injection volume: 10 µL

Sample concentration: 20 µg/mL

Temperature: 30°C

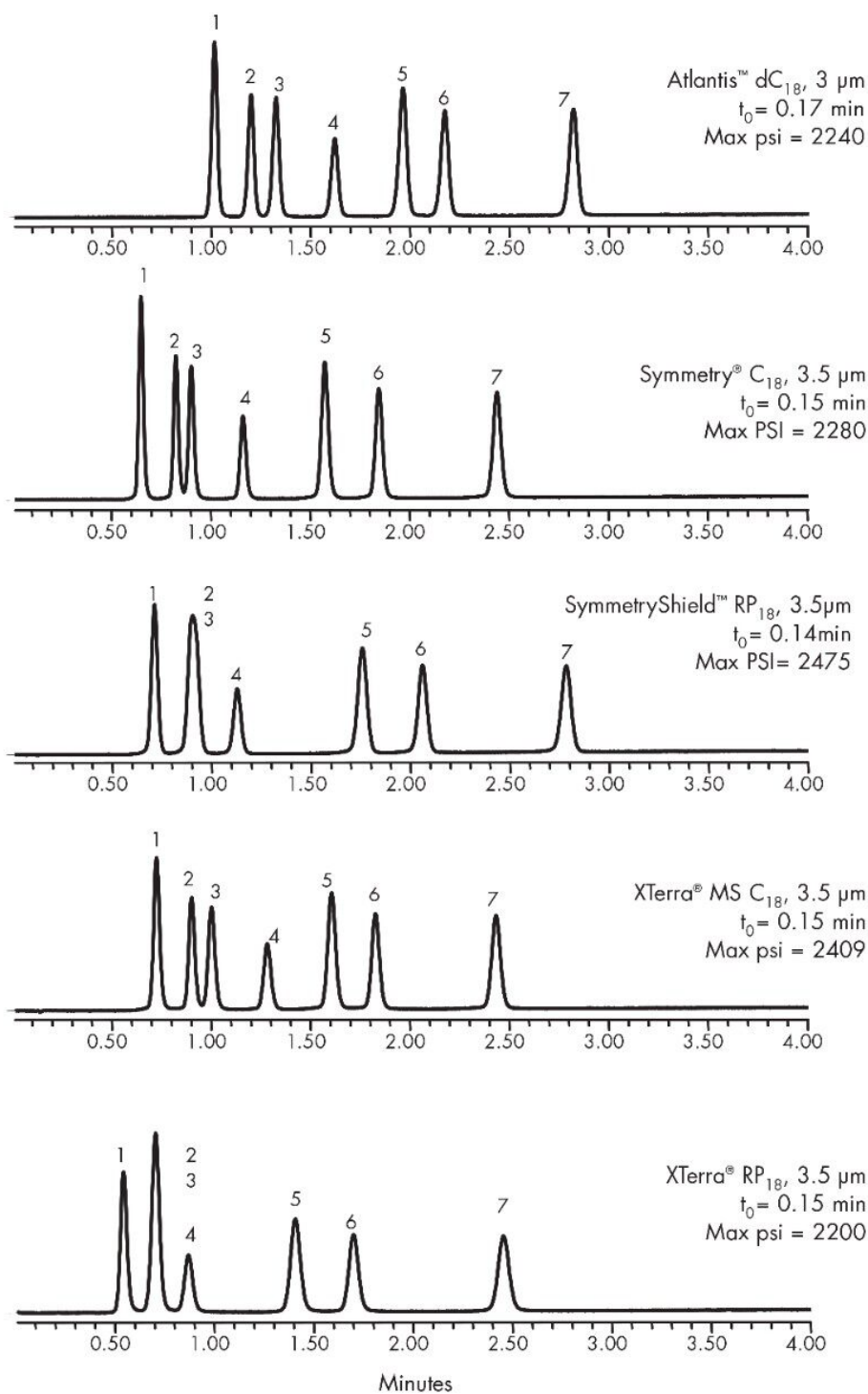
Detection: UV @ 270 nm

Instrument: Alliance 2795 with 996 PDA

Gradient Table

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

Results and Discussion



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WA31787.29, June 2003

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