Waters™

Nota applicativa

Sulfonamides – 4.6 x 20 mm Intelligent Speed Separation

Waters Corporation

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

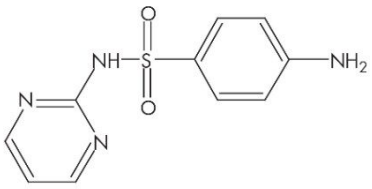
Abstract

This application brief demonstrates analysis of Sulfonamides.

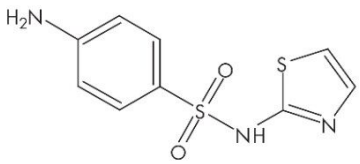
Introduction

The compounds analyzed in this study are:

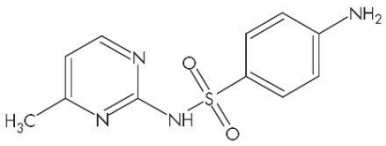
1. Sulfadiazine
2. Sulfathiazole
3. Sulfamerazine
4. Sulfadimidine
5. Sulfamethoxazole
6. Sulfisoxazole
7. Sulfadimethoxine



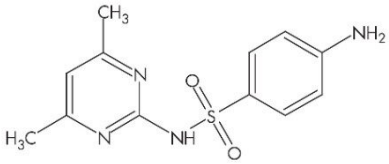
Sulfadiazine



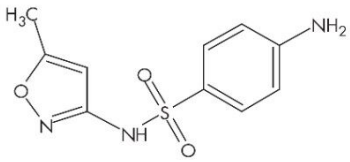
Sulfathiazole



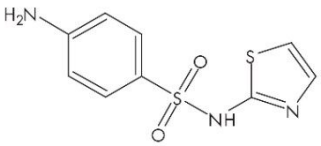
Sulfamerazine



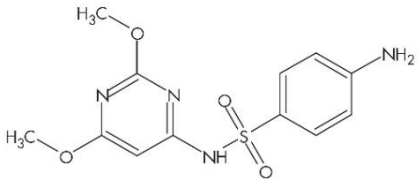
Sulfadimidine



Sulfamethoxazole



Sulfisoxazole



Sulfadimethoxine

Experimental

Conditions

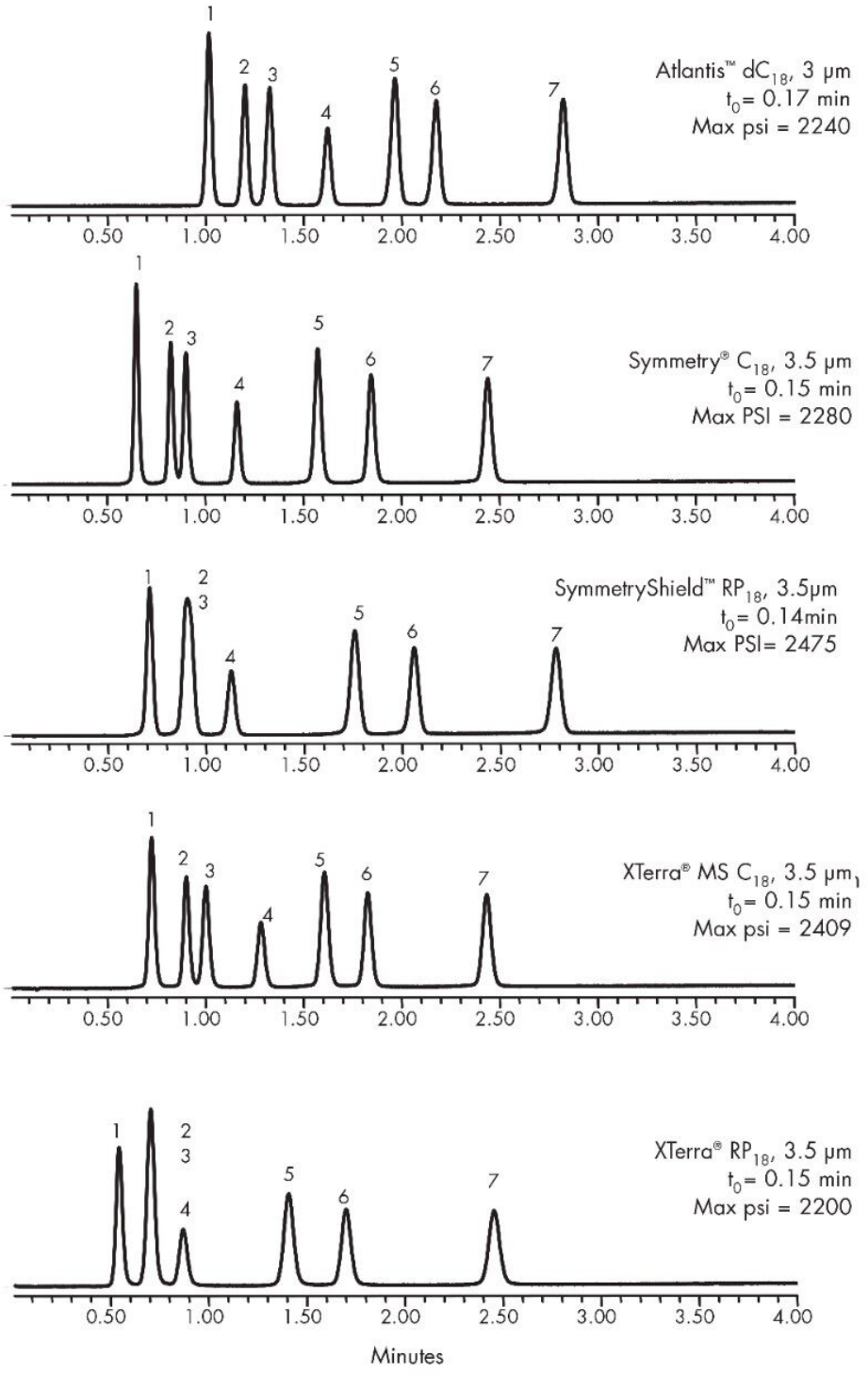
Columns:	Atlantis dC_{18}, 4.6 x 20 mm IS, 3 µm, (P/N:186002062)
	Symmetry C_{18}, 4.6 x 20 mm IS, 3.5 µm, (P/N:186002090)

	Symmetry Shield RP_{18}, 4.6 x 20 mm IS, 3.5 µm, (P/N:186002092) XTerra MS C_{18}, 4.6 x 20 mm IS, 3.5 µm, (P/N:186001891) XTerra RP_{18}, 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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Alliance HPLC System <https://www.waters.com/534293>

WA31787.29, June 2003