

Sulfa Drugs – 2.1 x 20 mm Intelligent Speed Separation

Waters Corporation



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

Abstract

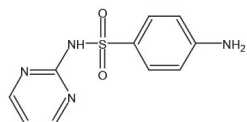
This application brief highlights the analysis of sulfa drugs using Intelligent Speed Separation Symmetry

columns.

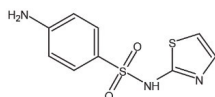
Introduction

Compounds used in this study are:

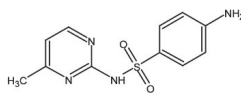
1. Sulfadiazine
2. Sulfathiazole
3. Sulfamerazine
4. Sulfadimidine
5. Sulfamethoxazole
6. Sulfisoxazole
7. Sulfadimethoxine



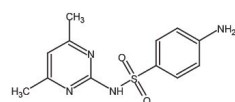
1. Sulfadiazine



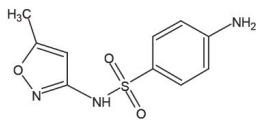
2. Sulfathiazole



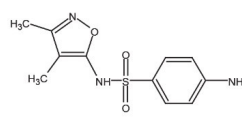
3. Sulfamerazine



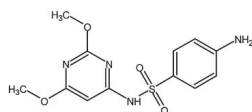
4. Sulfadimidine



5. Sulfamethoxazole



6. Sulfisoxazole



7. Sulfadimethoxine

Experimental

HPLC Method

Column: Symmetry C₁₈, 2.1 x 20 mm, 3.5 μm IS (p/n: 186002)

Mobile phase A: 0.1% HCOOH in Water

Mobile phase B: 0.1% HCOOH in MeOH

Flow rate: 0.6 mL/min

Injection volume: 10 μL

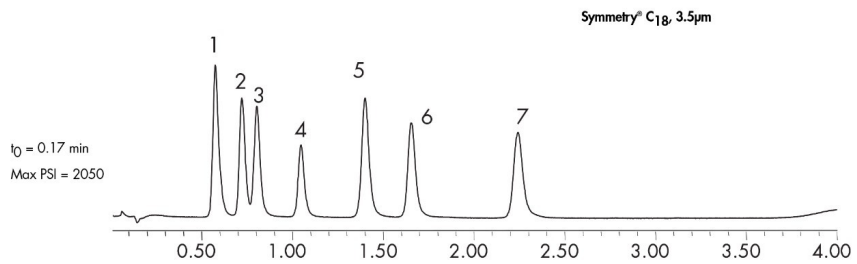
Temperature: 30° C

Detection: UV @ 270 nm

Gradient

Time (min)	Profile	
	%A	%B
0	100	0
4	50	50

Results and Discussion



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