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Application Note

Sulfa Drugs in Serum (Antibacterial)

Waters Corporation



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

Abstract

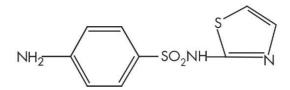
This application brief demonstrates analysis of sulfa drugs in serum.

Introduction

The compounds used in this study are -

- 1. Sulfadiazine
- 2. Sulfathiazole (I.S.)
- 3. Sulfamerazine

SULFADIAZINE



SULFATHIAZOLE (I.S.)

SULFAMERAZINE

Experimental

HPLC Method

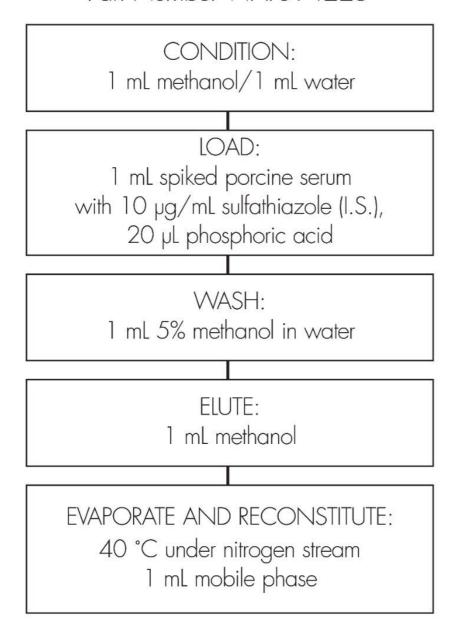
Column: Symmetry C_{18} , 3.9 x 150 mm, 5 μm

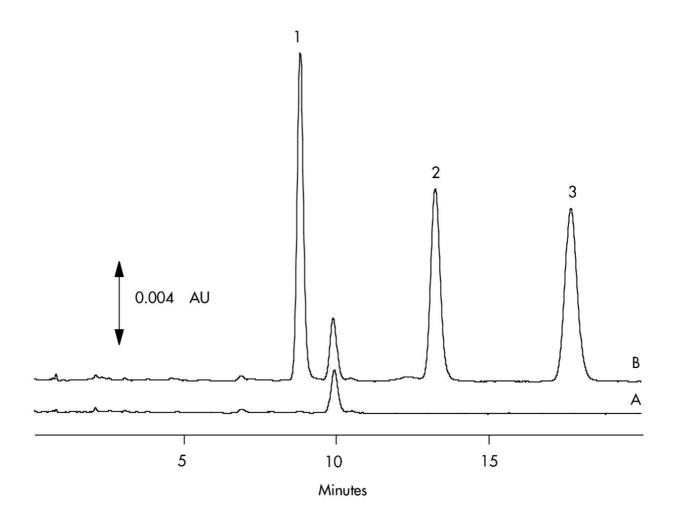
Part number: WAT046980

Mobile phase:	1% glacial acetic acid and 4% methanol in water	
Flow rate:	1 mL/min	
Injection volume:	10 µL of reconstituted porcine serum extract	
Temperature:	25 °C	
Detection:	UV @ 254 nm	

OASIS® HLB EXTRACTION METHOD

Oasis® HLB 1 cc/30 mg Extraction Cartridge Part Number WAT094225





Compound	Concentration µg/mL	% Recovery	%RSD (n=6)
Sulfadiazine	2.00	98.4%	2.7%
	10.0	96.9%	0.65%
Sulfamerazine	2.00	93.5%	1.9%
	10.0	96.4%	0.74%

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