

Sulfa Drugs in Serum (Antibacterial)

Waters Corporation



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

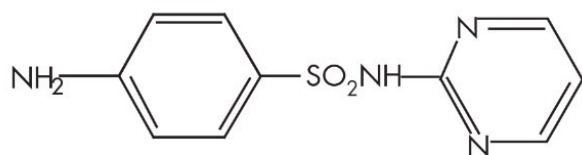
Abstract

This application brief demonstrates analysis of sulfa drugs in serum.

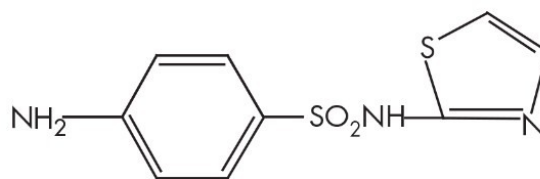
Introduction

The compounds used in this study are –

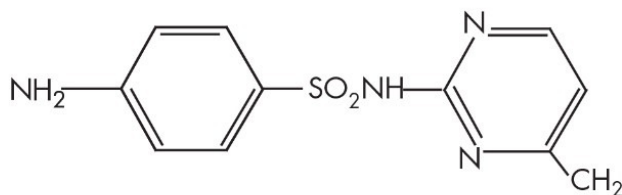
1. Sulfadiazine
2. Sulfathiazole (I.S.)
3. Sulfamerazine



SULFADIAZINE



SULFATHIAZOLE (I.S.)



SULFAMERAZINE

Experimental

HPLC Method

Column: Symmetry C₁₈, 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

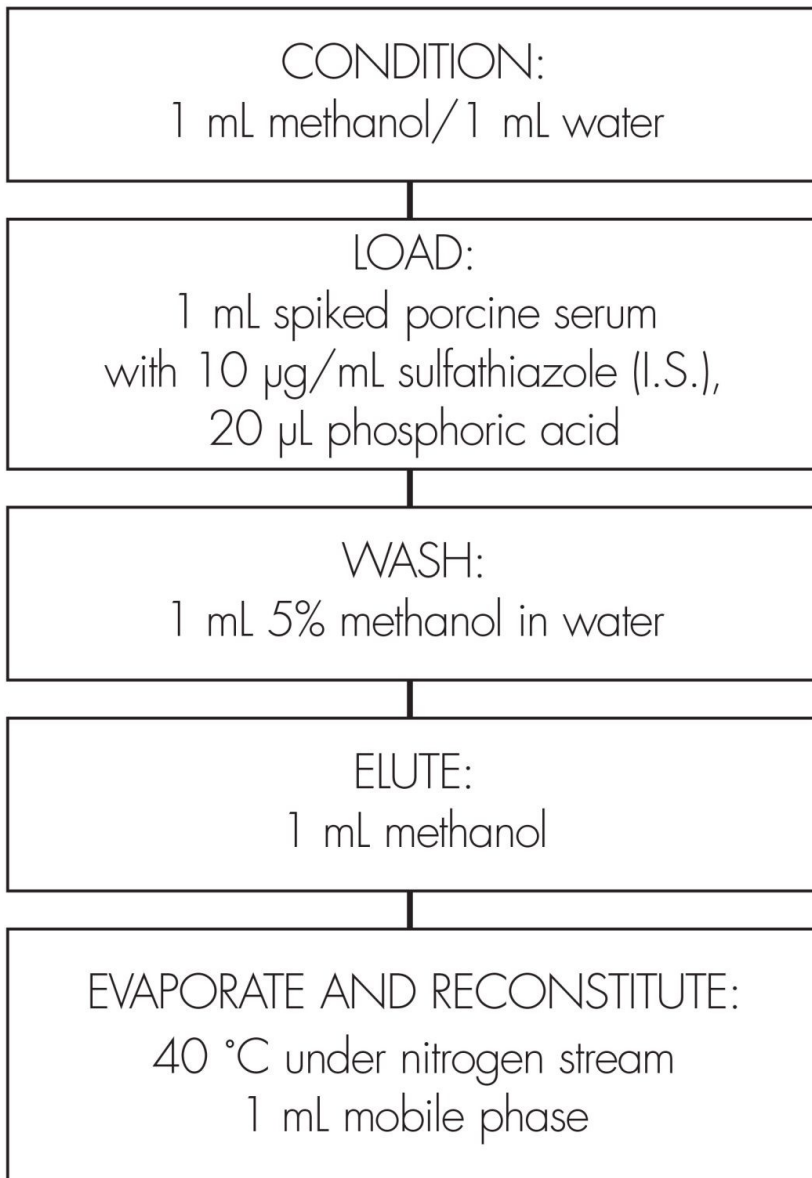
Injection volume: 10 μ L of reconstituted porcine serum extract

Temperature: 25 $^{\circ}$ C

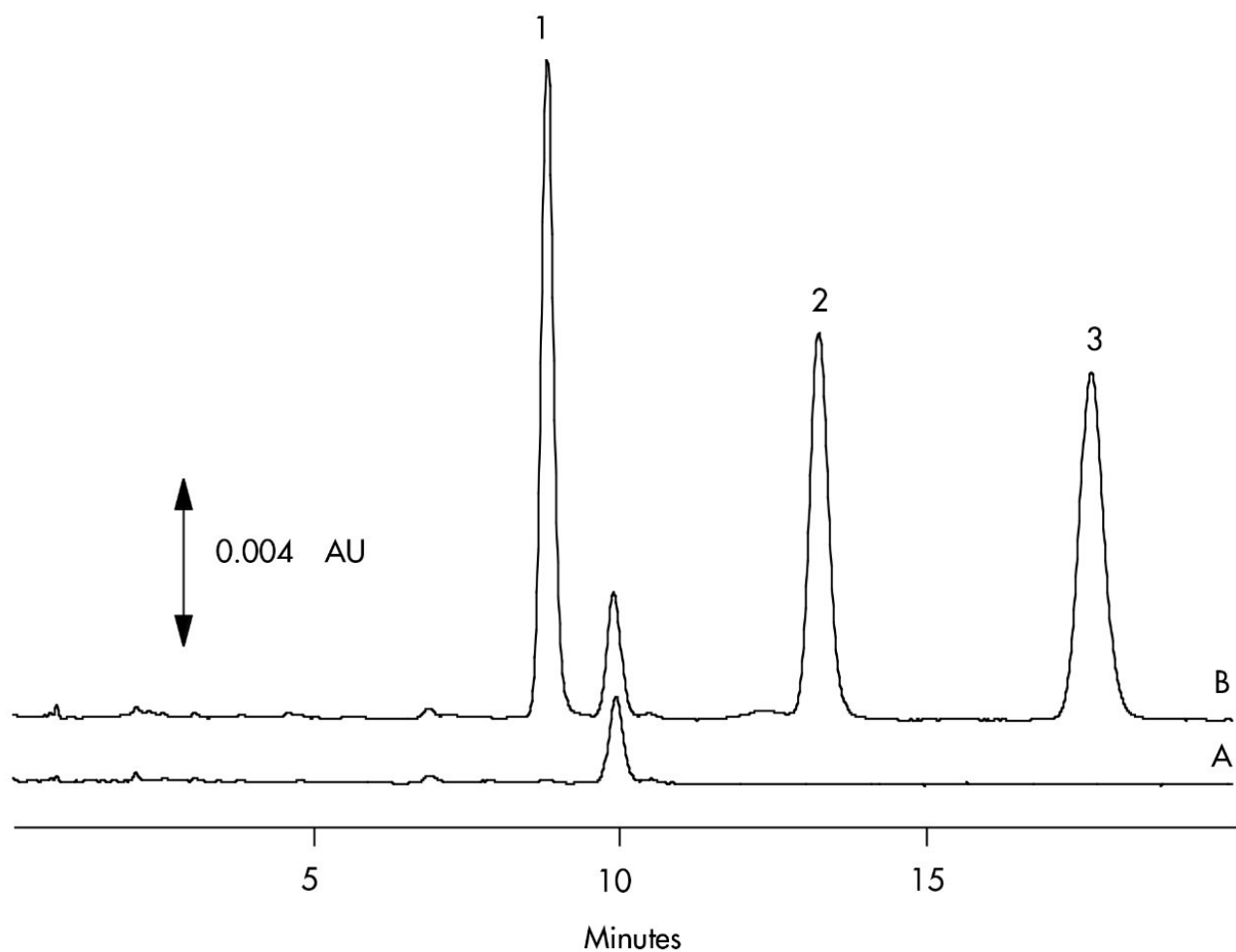
Detection: UV @ 254 nm

OASIS[®] HLB EXTRACTION METHOD

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



Results and Discussion



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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