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Nota applicativa

Sulfamethoxazole and Trimethoprim in Serum

Waters Corporation

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

Abstract

This application brief highlights the analysis of Sulfamethoxazole and Trimethoprim in serum using Symmetry Columns.

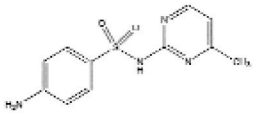
Introduction

Compounds used in this study are:

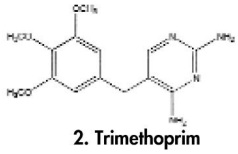
1. Sulfamerazine (I.S.)

2. Trimethoprim

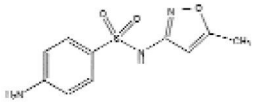
3. Sulfamethoxazole



1. Sulfamerazine (I.S.)



2. Trimethoprim



3. Sulfamethoxazole

Experimental

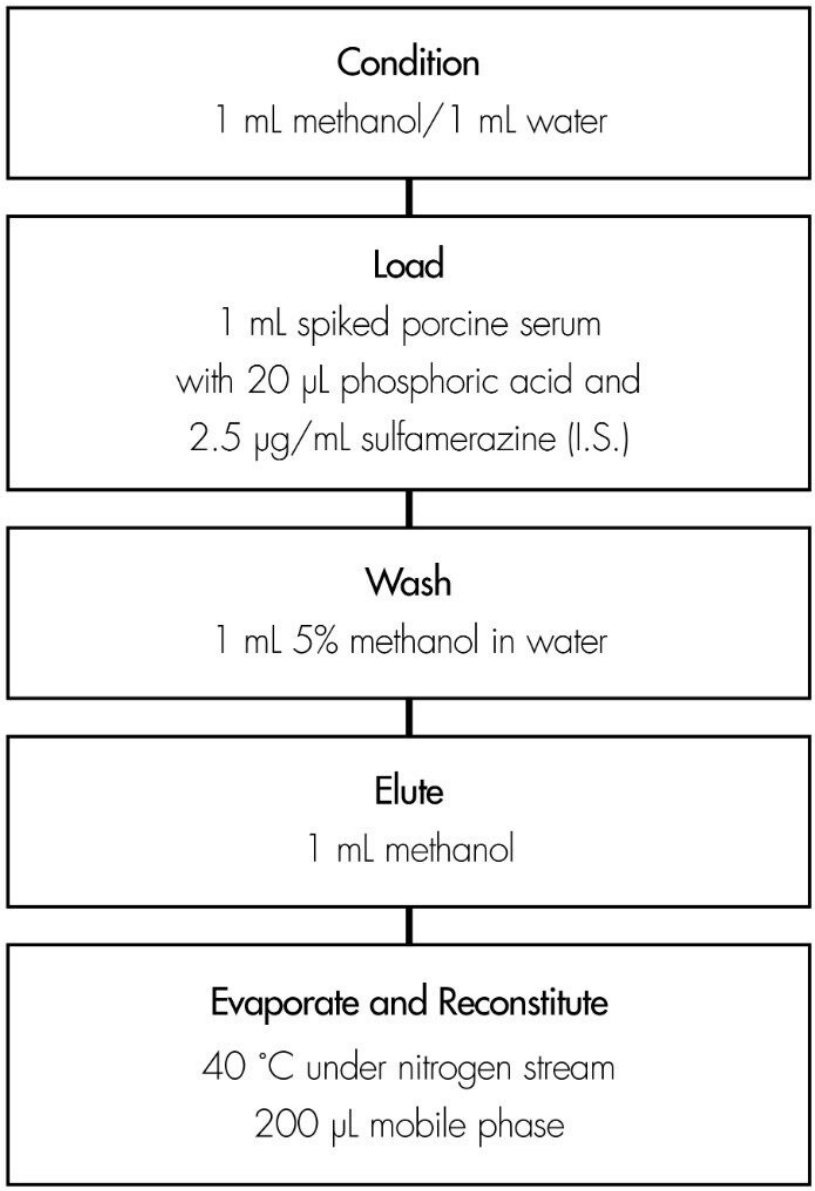
HPLC Method

Column:	Symmetry C_{18}, 3.9 x 150 mm, 5 µm (p/n:WAT046980)
Guard column:	Sentry guard column, 3.9 x 20 mm, 5 µm
Mobile phase:	25 mM ammonium acetate, pH 5/methanol 82:18 (v/v)
Flow rate:	1.0 mL/min

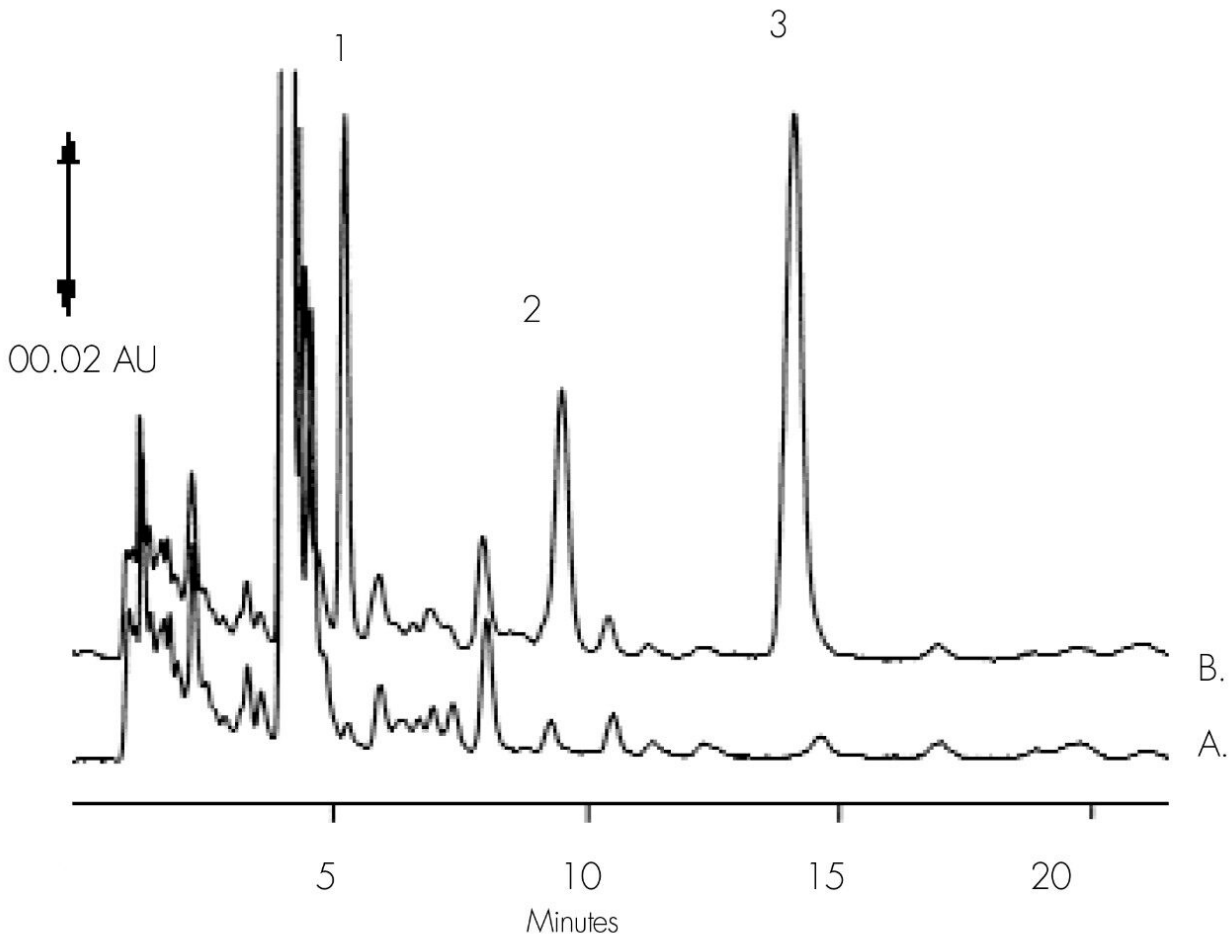
Injection volume:	20 µL of reconstituted porcine serum extract
Detection:	UV @ 290 nm

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)
Sulfamethoxazole	1.20	90.4%	1.3%
	0.240	95.4%	3.4%
Trimethoprim	1.50	96.7%	1.1%
	0.300	99.3%	3.2%

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