

## Sulfa Drugs in Serum (Antibacterial)

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Waters Corporation



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

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### Abstract

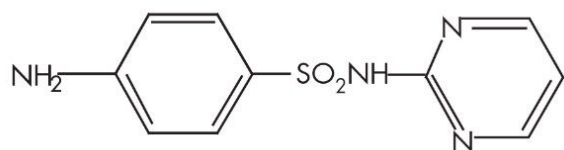
This application brief demonstrates analysis of sulfa drugs in serum.

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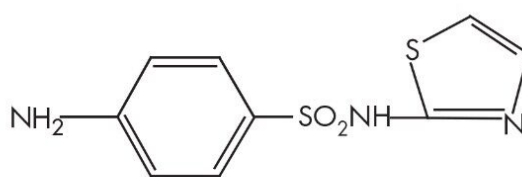
## Introduction

The compounds used in this study are –

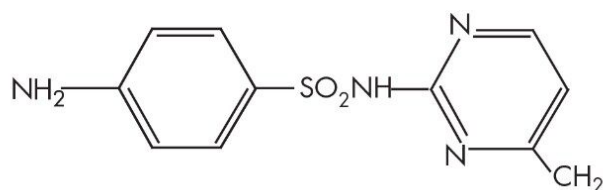
1. Sulfadiazine
2. Sulfathiazole (I.S.)
3. Sulfamerazine



SULFADIAZINE



SULFATHIAZOLE (I.S.)



SULFAMERAZINE

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## Experimental

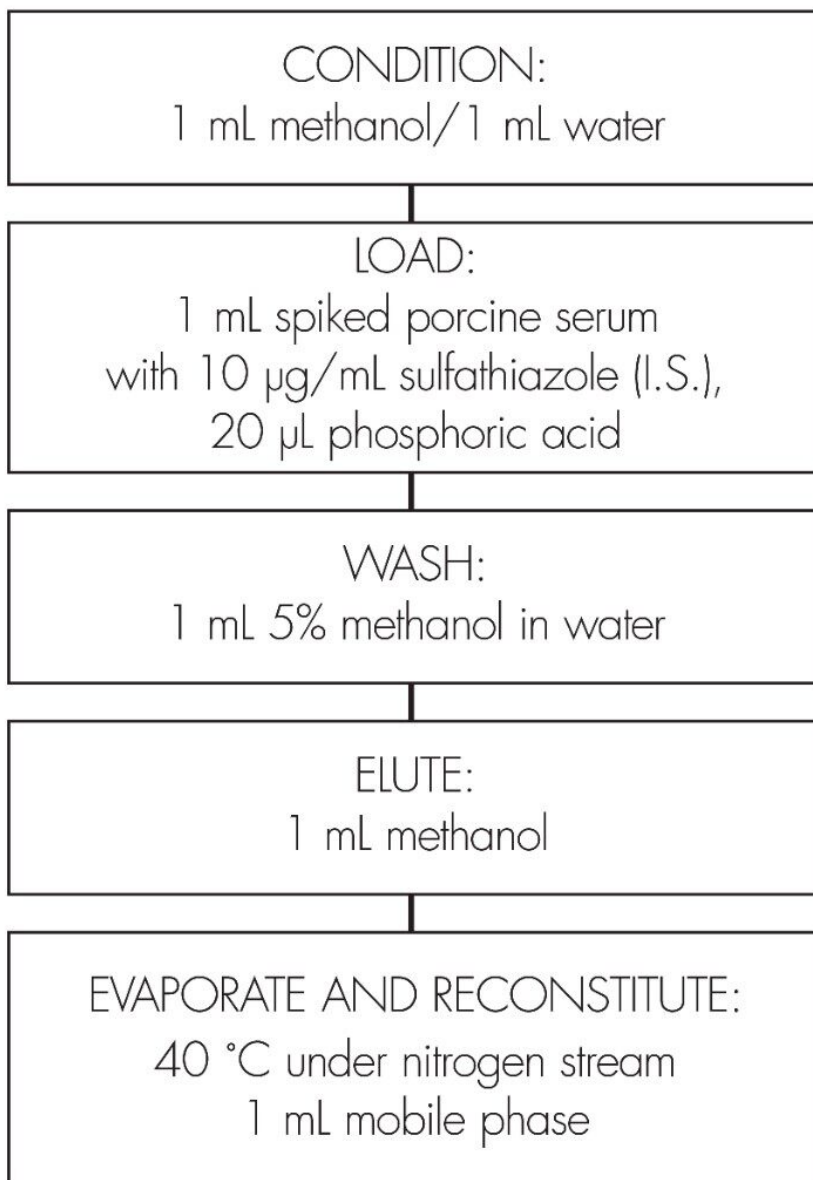
### HPLC Method

Column:	Symmetry C <sub>18</sub> , 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 $\mu$ L of reconstituted porcine serum extract
Temperature:	25 $^{\circ}$ C
Detection:	UV @ 254 nm

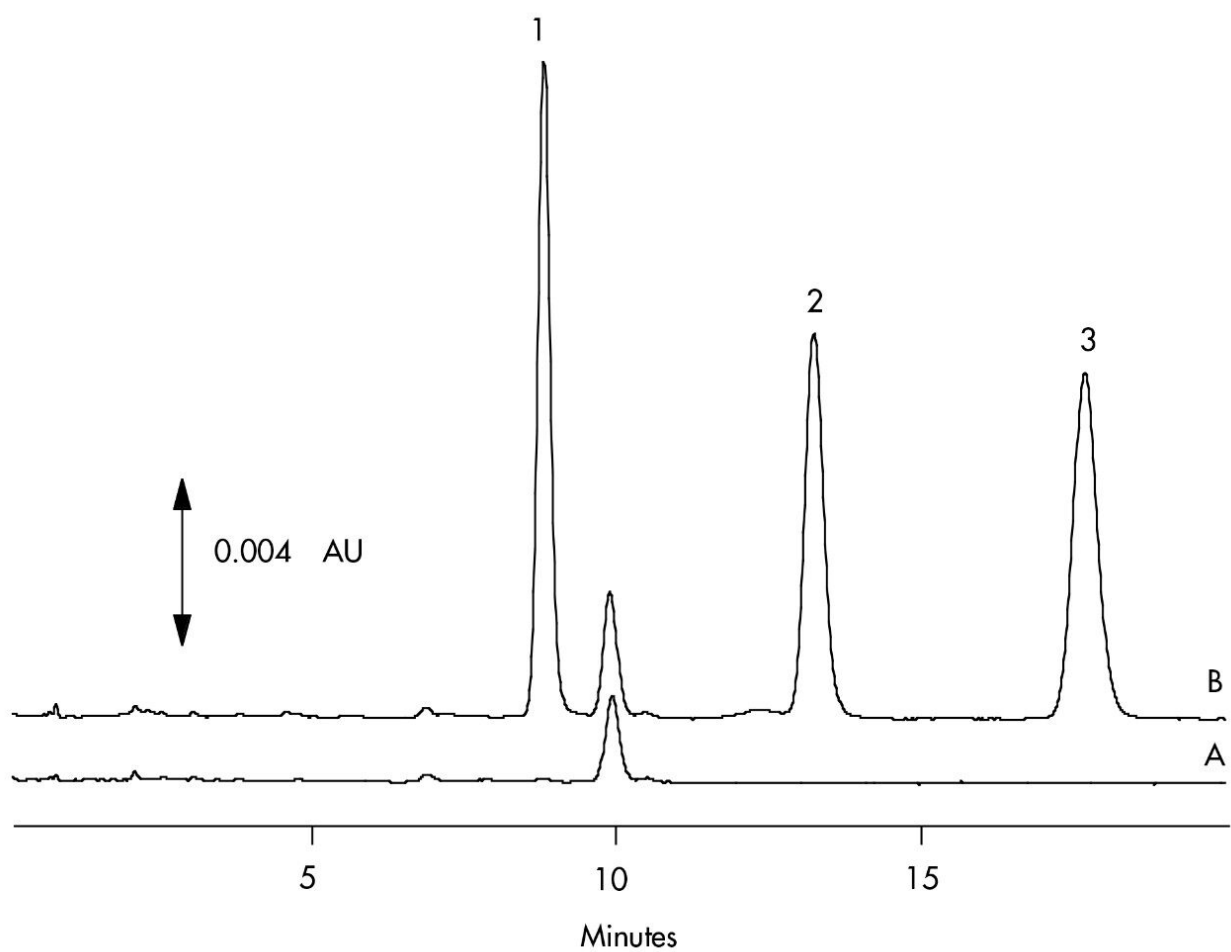
## OASIS<sup>®</sup> HLB EXTRACTION METHOD

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



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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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## Featured Products

WA31764.142, June 2003

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