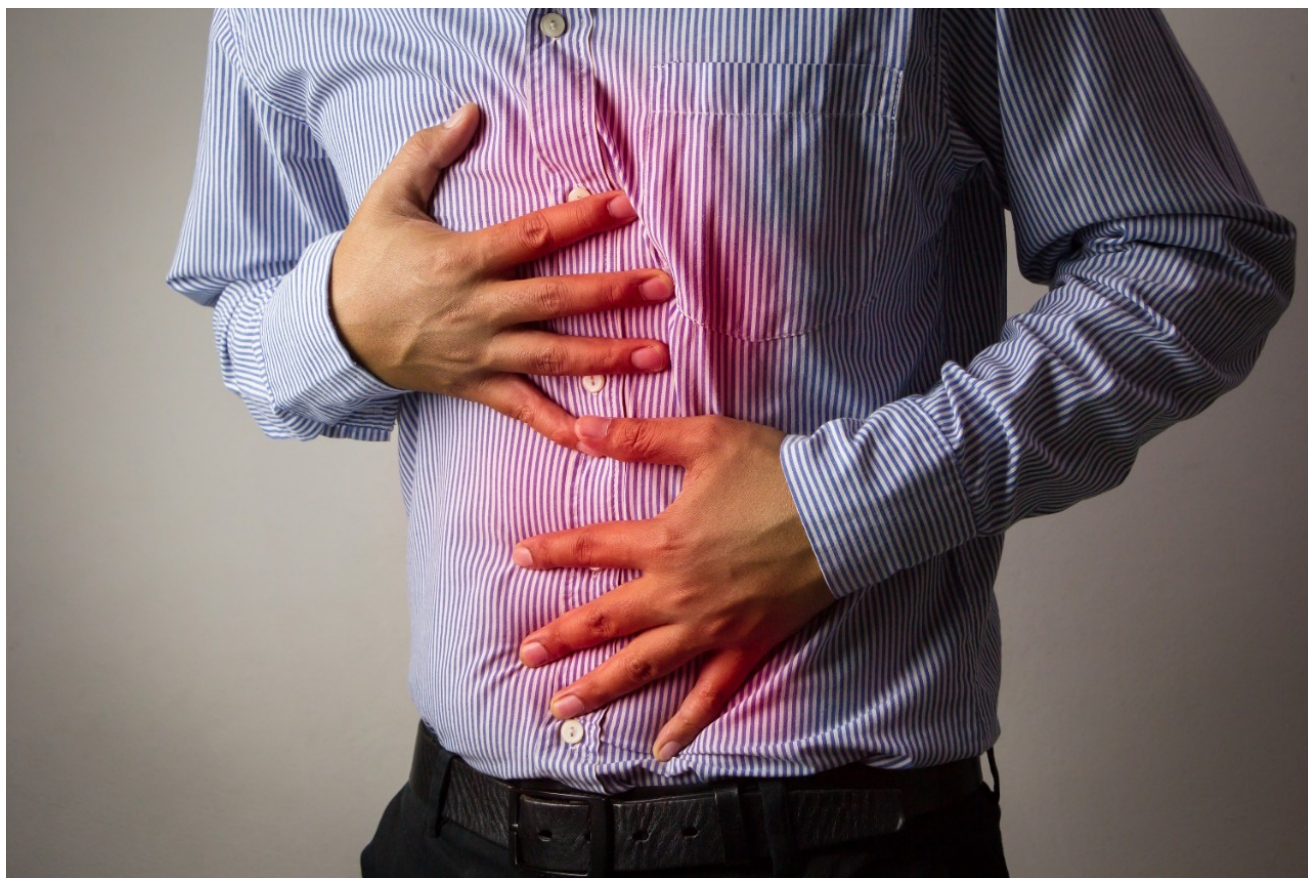


Ranitidine in Serum

Waters Corporation



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

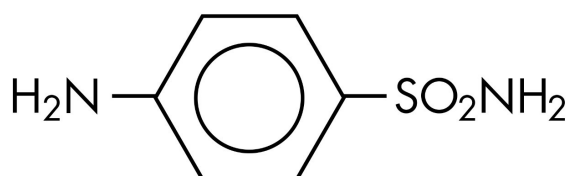
Abstract

This application brief highlights the analysis of ranitidine in serum using Symmetry Shield RP₈ Columns.

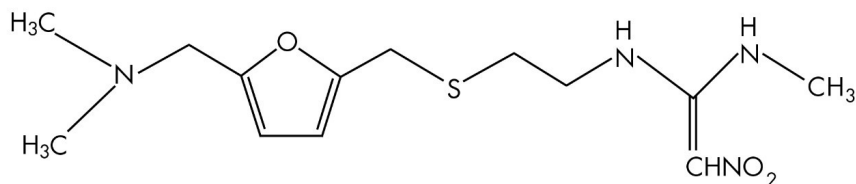
Introduction

The compounds analyzed in this study are:

1. Sulfanilamide (I.S.)
2. Ranitidine



1. Sulfanilamide



2. Ranitidine

Experimental

HPLC Method

Column:	Symmetry Shield RP ₈ , 3.9 x 150 mm, 5 μm
Guard column:	Symmetry guard column, 3.9 x 20 mm, 5 μm
Part numbers:	Column - WAT200655, Guard - WAT200675
Mobile phase:	20 mM potassium phosphate, pH 3.0/methanol

97:3

Flow rate:

1.0 mL/min

Injection volume:

50 µL of reconstituted porcine serum extract

Temperature:

30° C

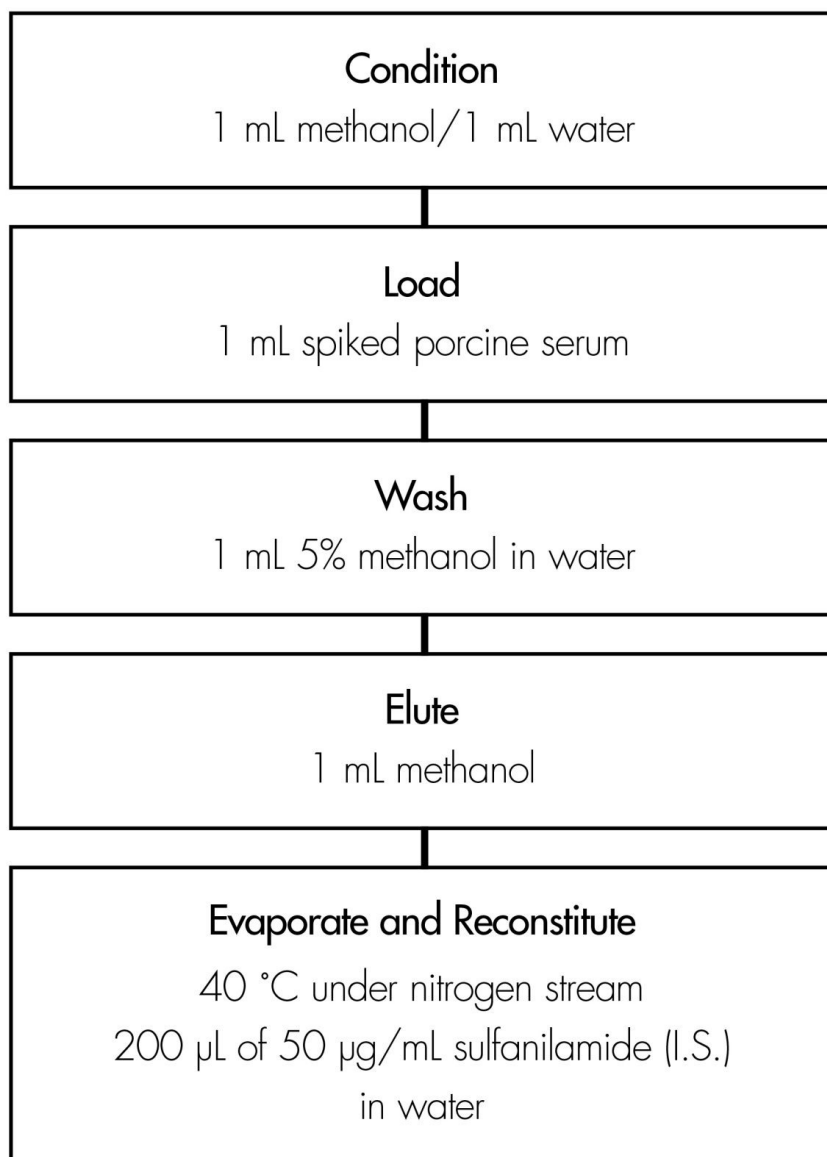
Detection:

UV @ 220 nm

Oasis® HLB Extraction Method

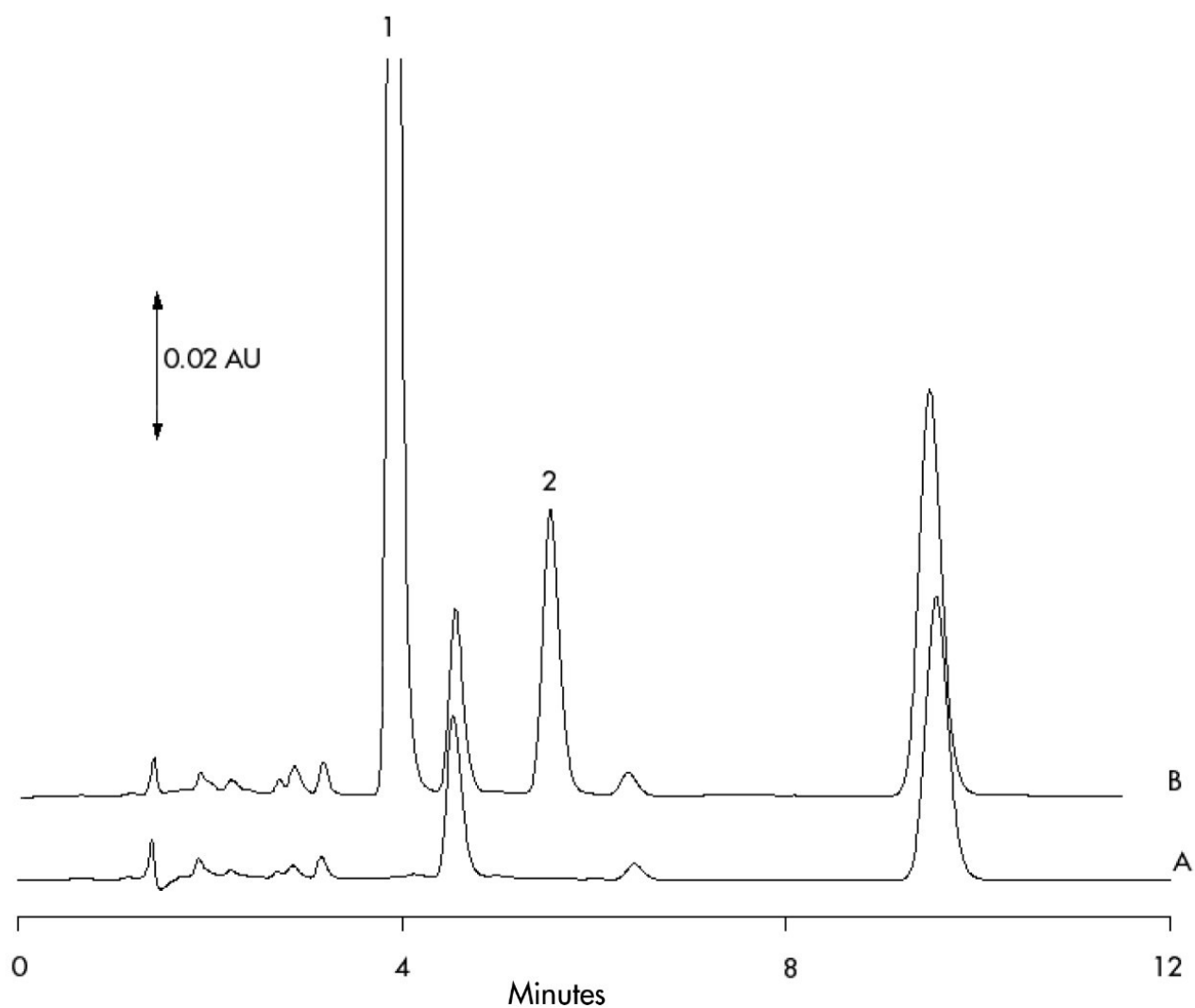
Oasis® HLB 1 cc/30mg Extraction Cartridge

Part Number WAT094225



Results and Discussion

Compound	Concentration $\mu\text{g/mL}$	% Recovery	%RSD (n=6)
Ranitidine	0.100	104%	1.9%
	0.500	102%	1.7%



Chromatogram of Serum Extracts: A) Blank B) Spiked Sample.

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