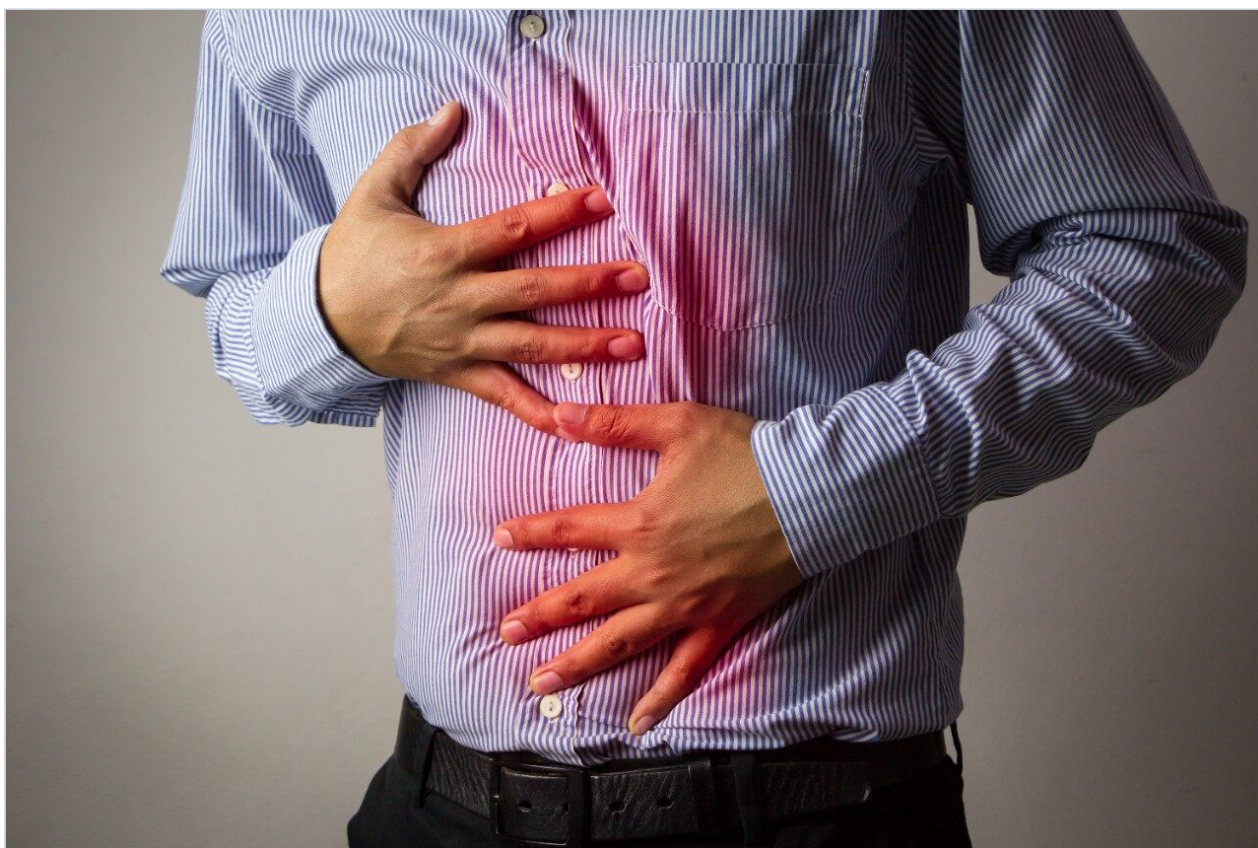




## Ranitidine in Serum

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Waters Corporation



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

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### Abstract

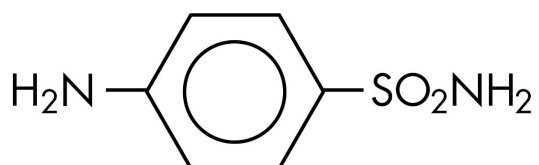
This application brief highlights the analysis of ranitidine in serum using Symmetry Shield RP<sub>8</sub> Columns.

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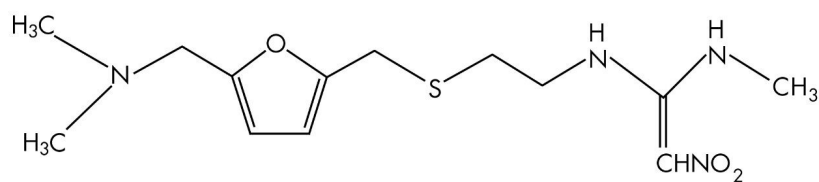
## Introduction

The compounds analyzed in this study are:

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



### 1. Sulfanilamide



### 2. Ranitidine

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## Experimental

### HPLC Method

Column:	Symmetry Shield RP <sub>8</sub> , 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  $\mu$ L of reconstituted porcine serum extract

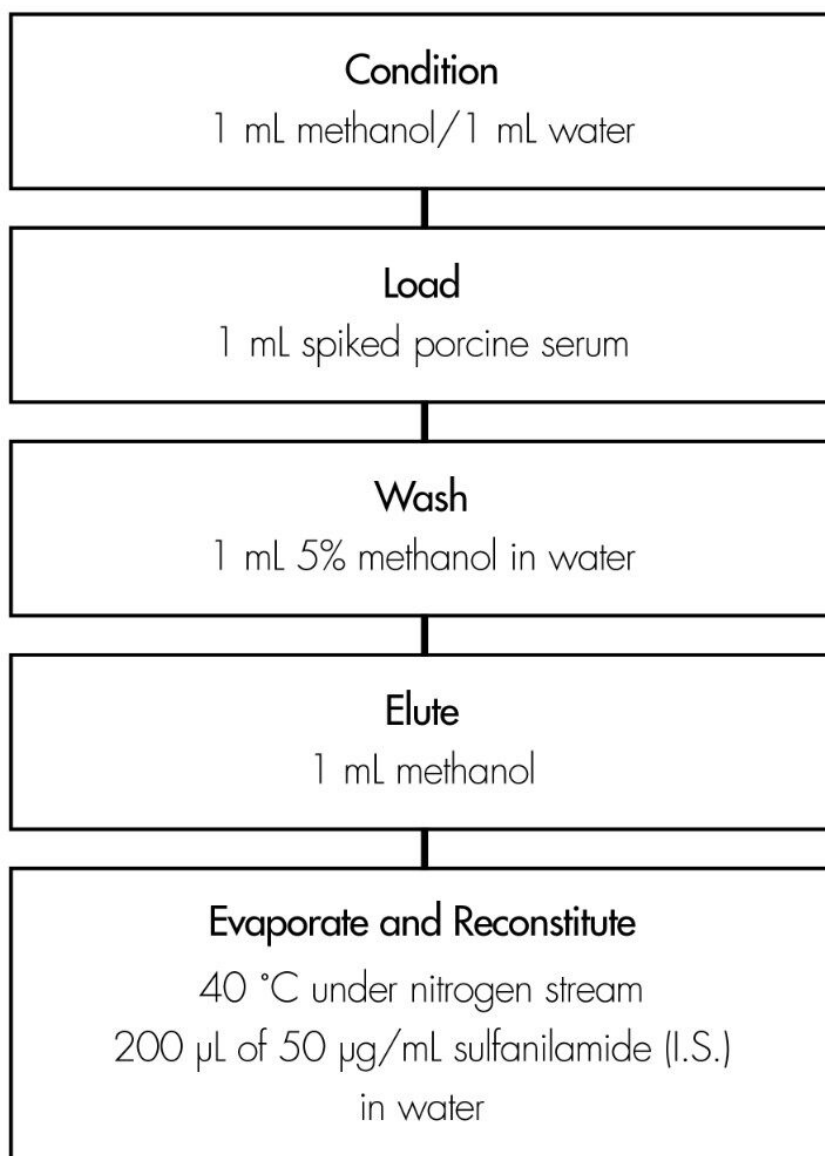
Temperature: 30° C

Detection: UV @ 220 nm

# Oasis<sup>®</sup> HLB Extraction Method

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

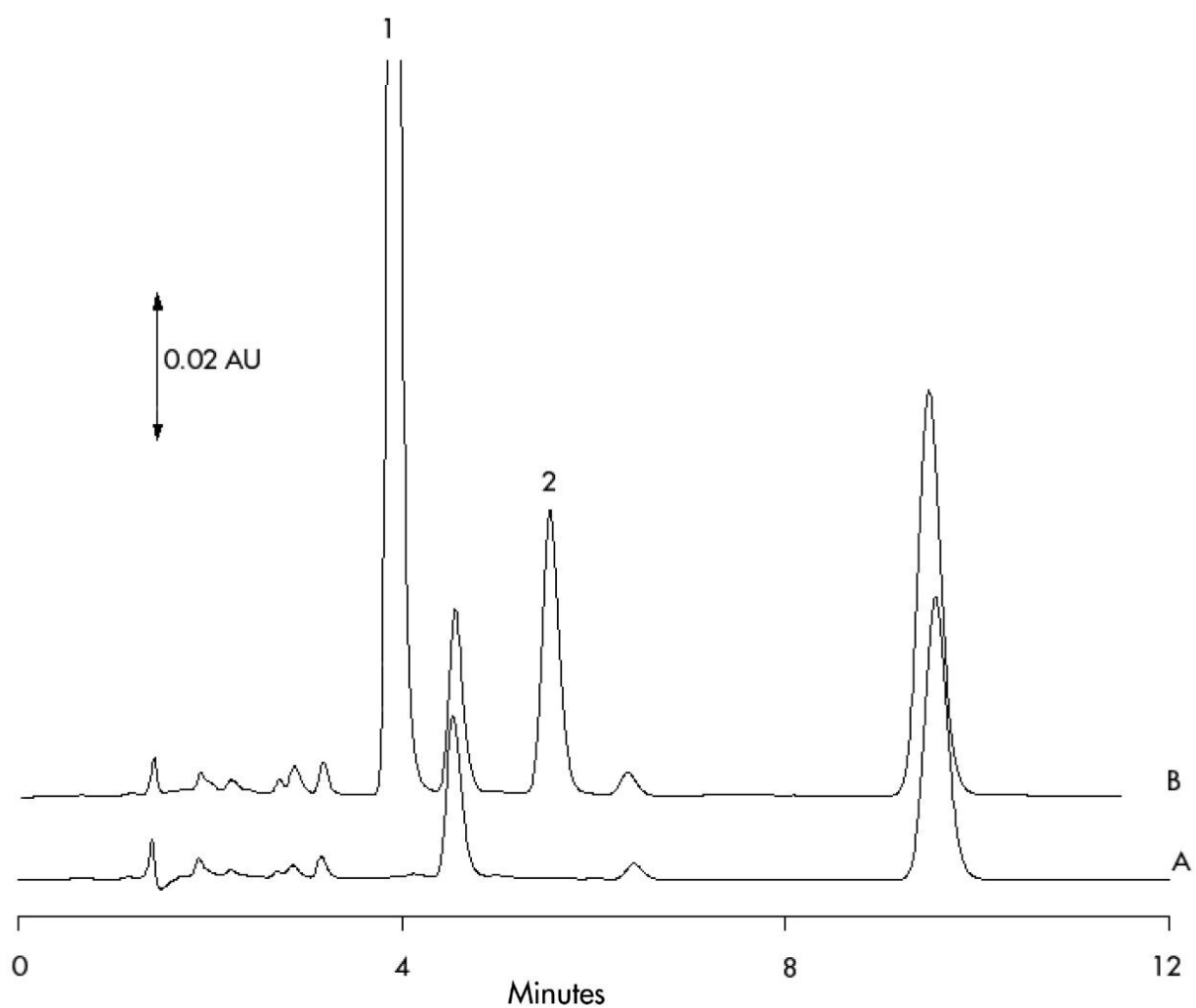
Part Number WAT094225



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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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## Featured Products

WA31763.144, June 2003

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