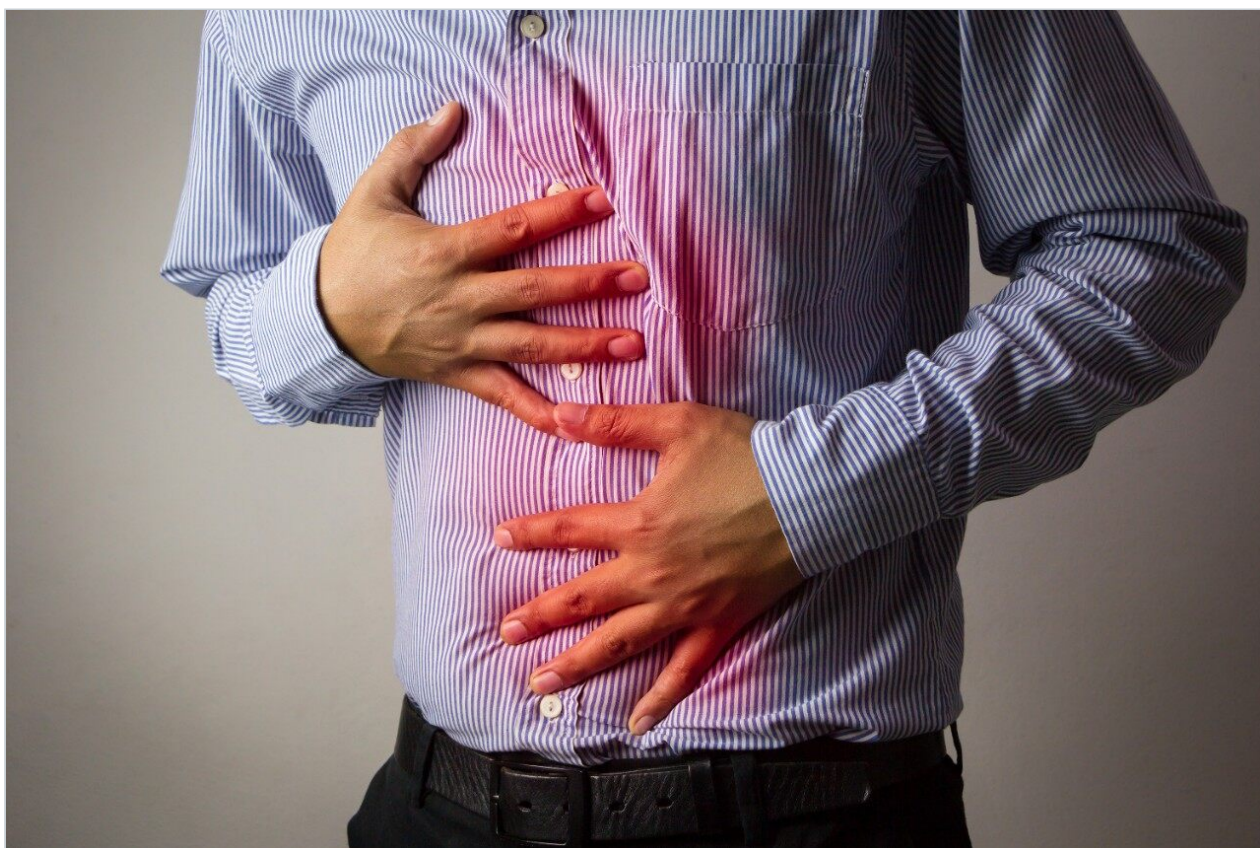


## Ranitidine in Serum

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Waters Corporation



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

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### Abstract

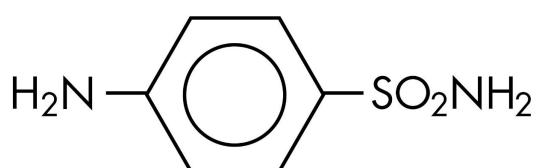
This application brief highlights the analysis of ranitidine in serum using Symmetry Shield RP<sub>8</sub> Columns.

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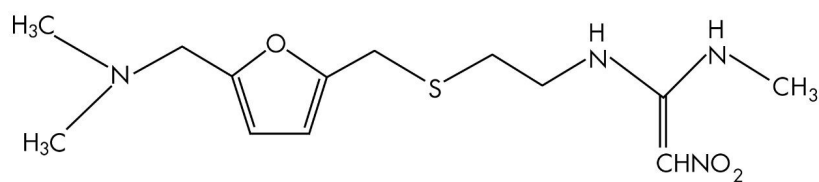
## Introduction

The compounds analyzed in this study are:

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



### 1. Sulfanilamide



### 2. Ranitidine

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## Experimental

### HPLC Method

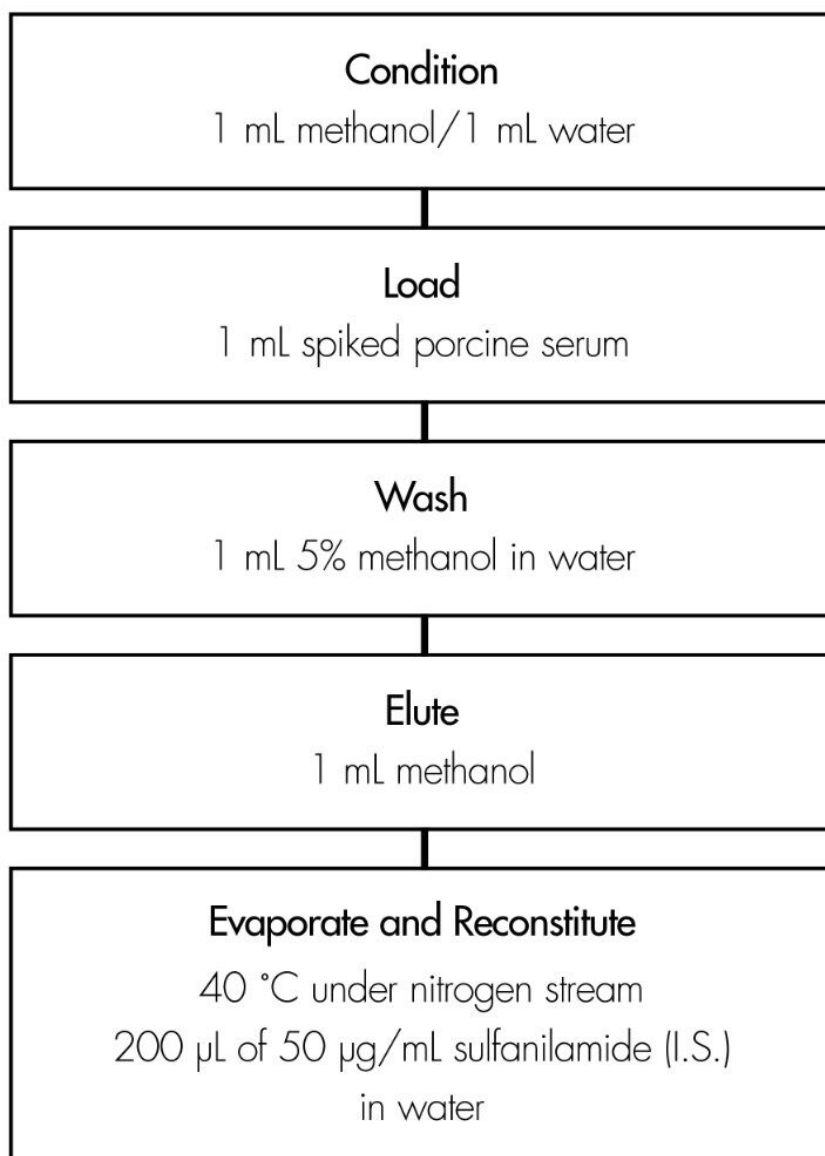
|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Column:       | Symmetry Shield RP <sub>8</sub> , 3.9 x 150 mm, 5 $\mu\text{m}$ |
| Guard column: | Symmetry guard column, 3.9 x 20 mm, 5 $\mu\text{m}$             |
| Part numbers: | Column - WAT200655, Guard - WAT200675                           |

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Mobile phase:     | 20 mM potassium phosphate, pH 3.0/methanol<br>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

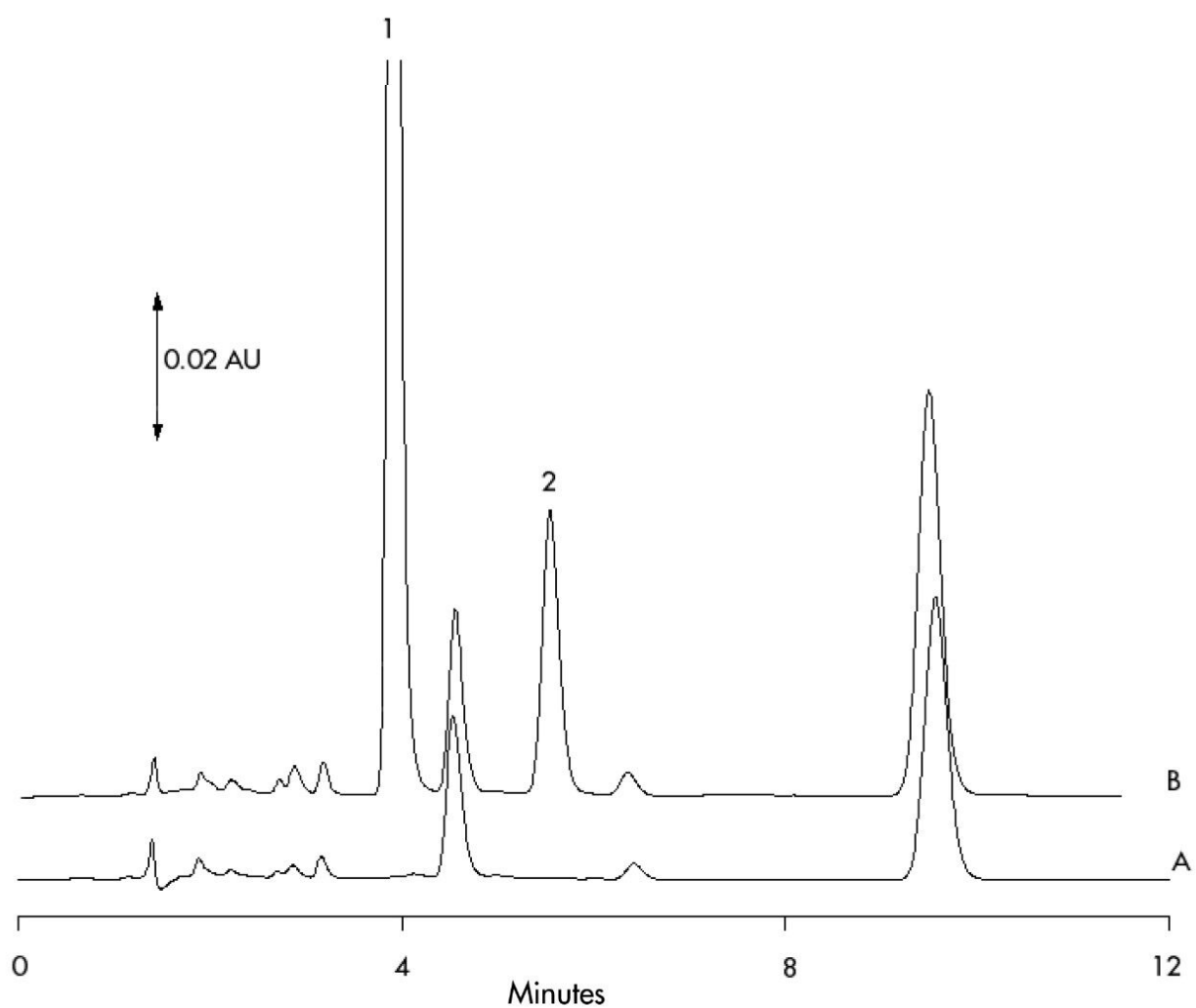
Part Number WAT094225



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Results and Discussion

| Compound   | Concentration<br>µg/mL | % Recovery | %RSD<br>(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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