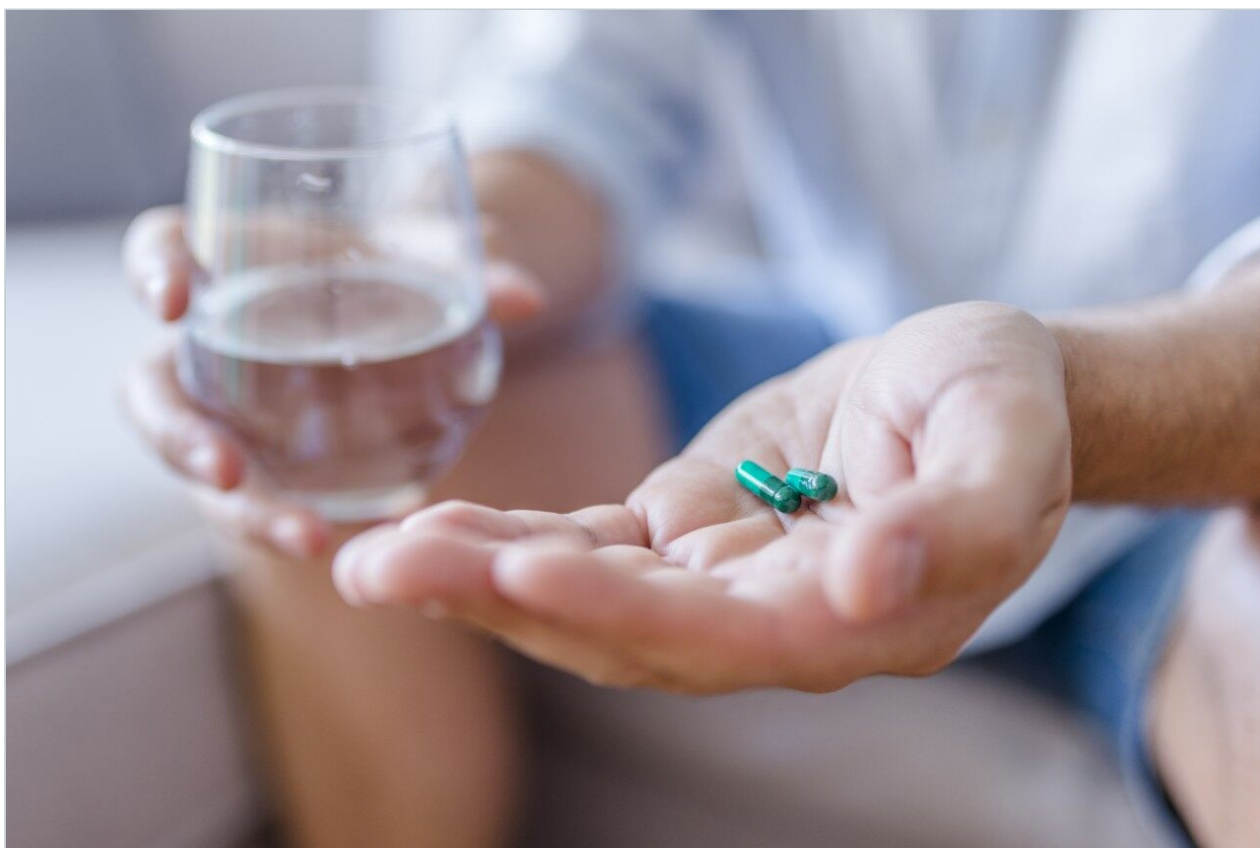


Nota applicativa

## Sulfa Drugs

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Waters Corporation



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

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### Abstract

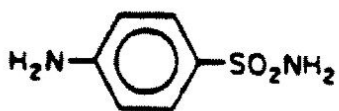
This application brief demonstrates analysis of sulfa drugs.

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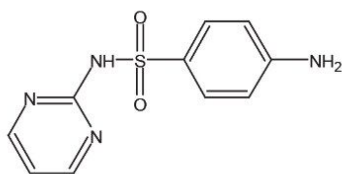
## Introduction

The compounds used in this study are -

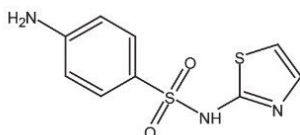
| Compounds             | USP Tailing Factors |
|-----------------------|---------------------|
| Sulfanilamide         | 1.27                |
| Sulfadiazine          | 1.19                |
| Sulfathiazole         | 1.18                |
| Sulfamerazine         | 1.15                |
| Sulfamethazine        | 1.12                |
| Succinylsulfathiazole | 1.11                |



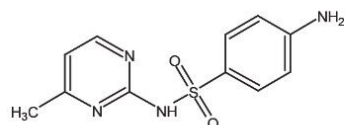
**1. Sulfanilamide**



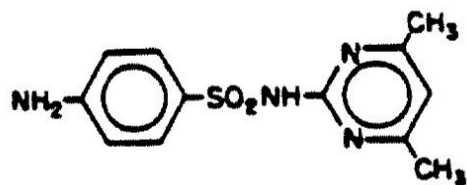
**2. Sulfadiazine**



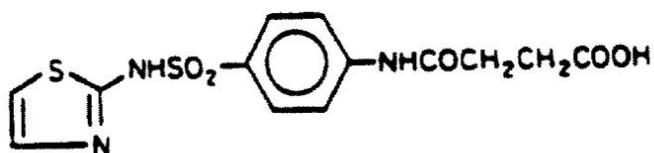
**3. Sulfathiazole**



**4. Sulfamerazine**



**5. Sulfamethazine**



**6. Succinylsulfathiazole**

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## Experimental

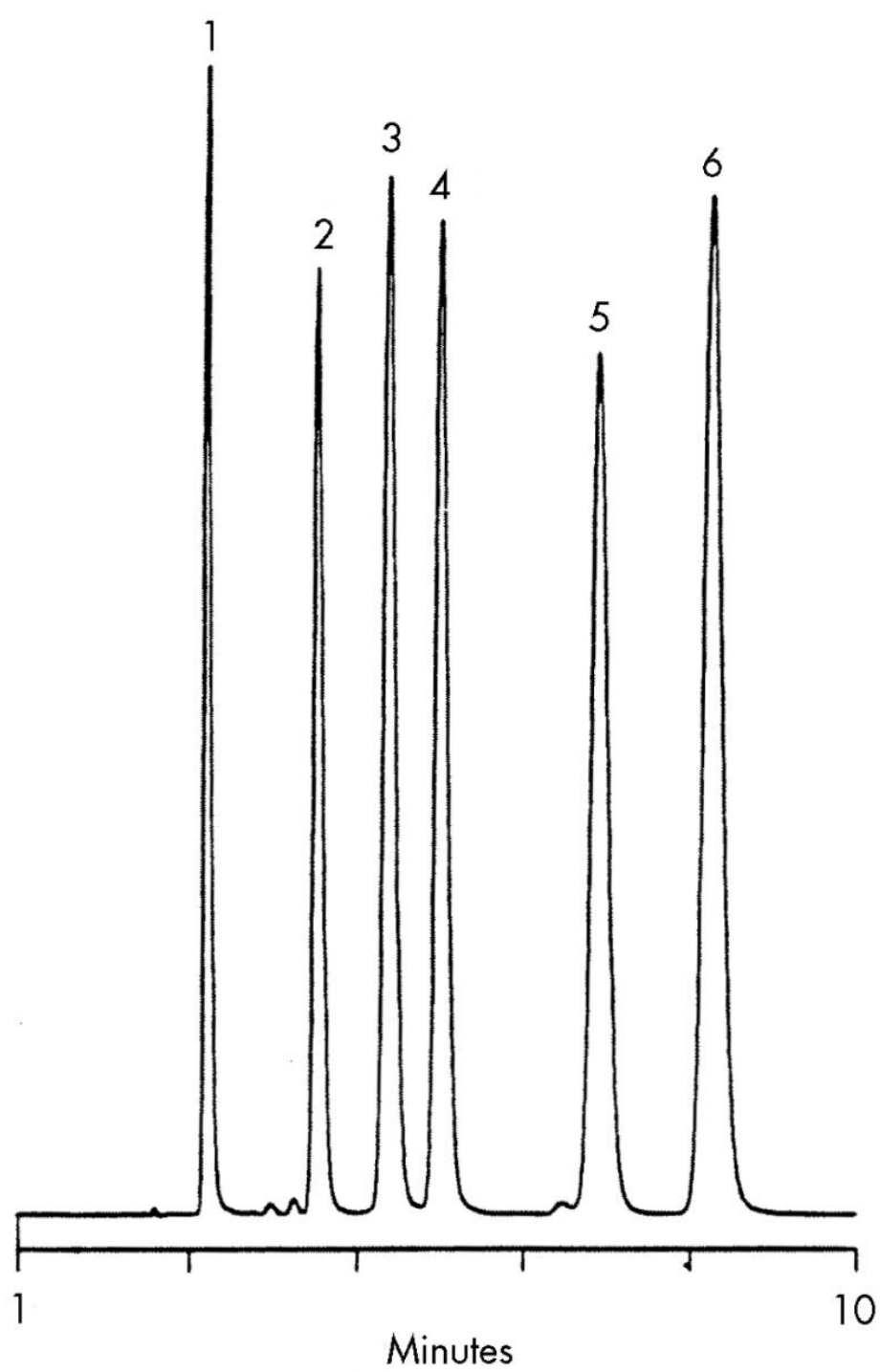
### HPLC Method

|               |                                              |
|---------------|----------------------------------------------|
| Column:       | Symmetry C <sub>8</sub> , 3.9 x 150 mm, 5 µm |
| Guard column: | Sentry Guard Column 3.9 x 20 mm, 5 µm        |
| Part numbers: | Column - WAT046970, Guard - WAT054250        |
| Mobile phase: | Water/methanol/glacial acetic acid 79:20:1   |

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| Flow rate:        | 1.0 mL/min                                                  |
| Injection volume: | 10 $\mu$ L of sample with components at 10 to 39 $\mu$ g/mL |
| Detection:        | UV @ 254 nm                                                 |

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## Results and Discussion



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Featured Products

WA31763.154, June 2003

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