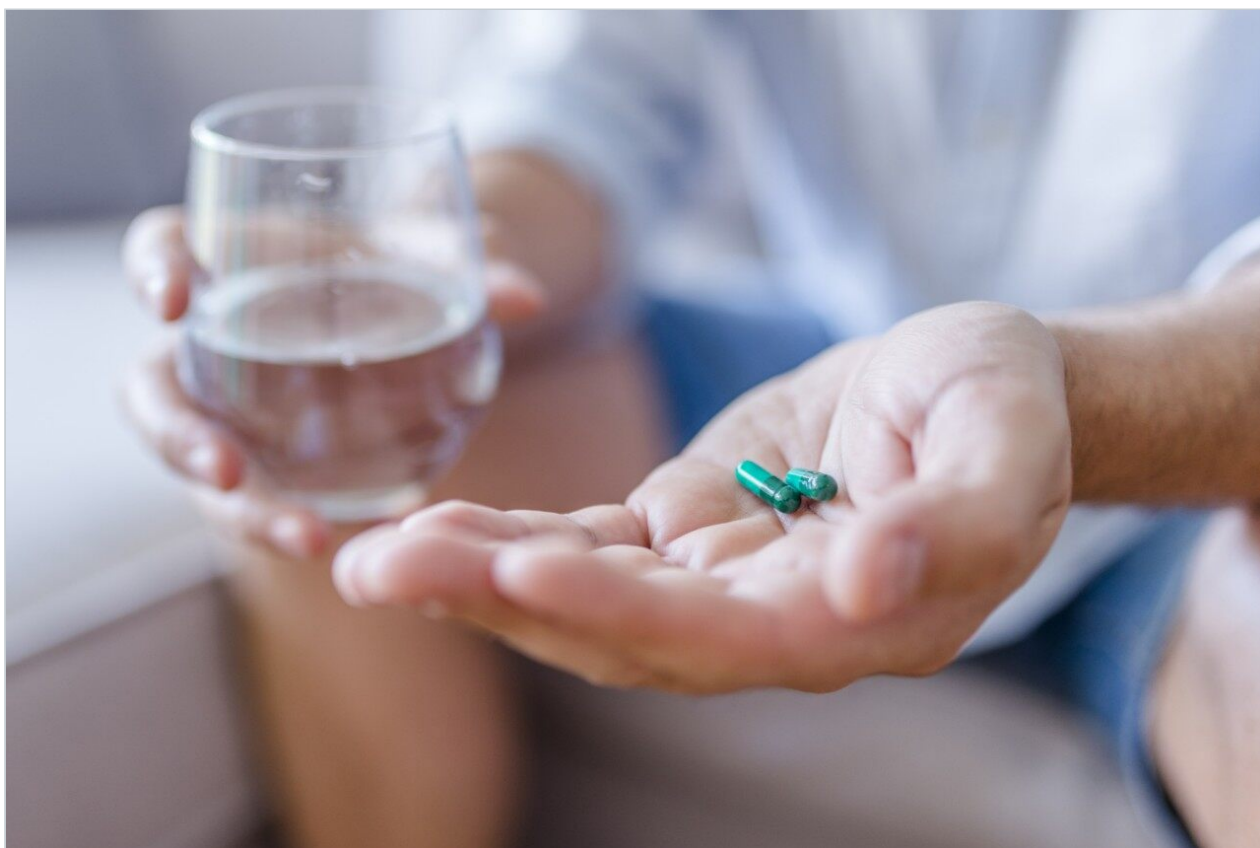


Application Note

## Sulfa Drugs

---

Waters Corporation



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

---

### Abstract

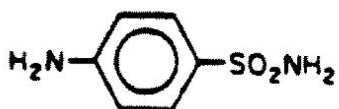
This application brief demonstrates analysis of sulfa drugs.

---

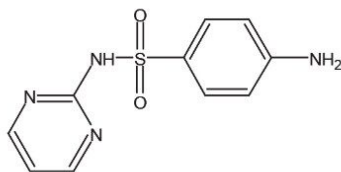
## Introduction

The compounds used in this study are -

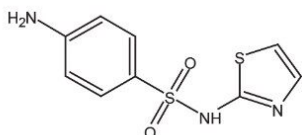
Compounds	USP Tailing Factors
Sulfanilamide	1.27
Sulfadiazine	1.19
Sulfathiazole	1.18
Sulfamerazine	1.15
Sulfamethazine	1.12
Succinylsulfathiazole	1.11



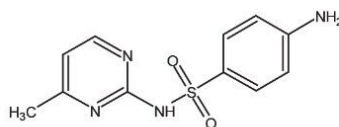
**1. Sulfanilamide**



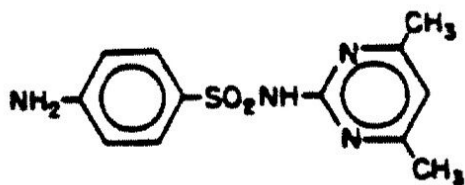
**2. Sulfadiazine**



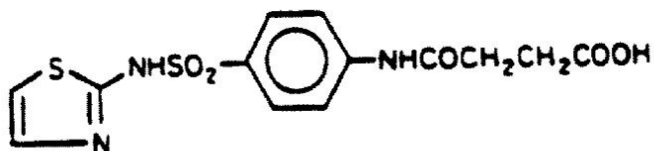
**3. Sulfathiazole**



**4. Sulfamerazine**



**5. Sulfamethazine**



**6. Succinylsulfathiazole**

---

## 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

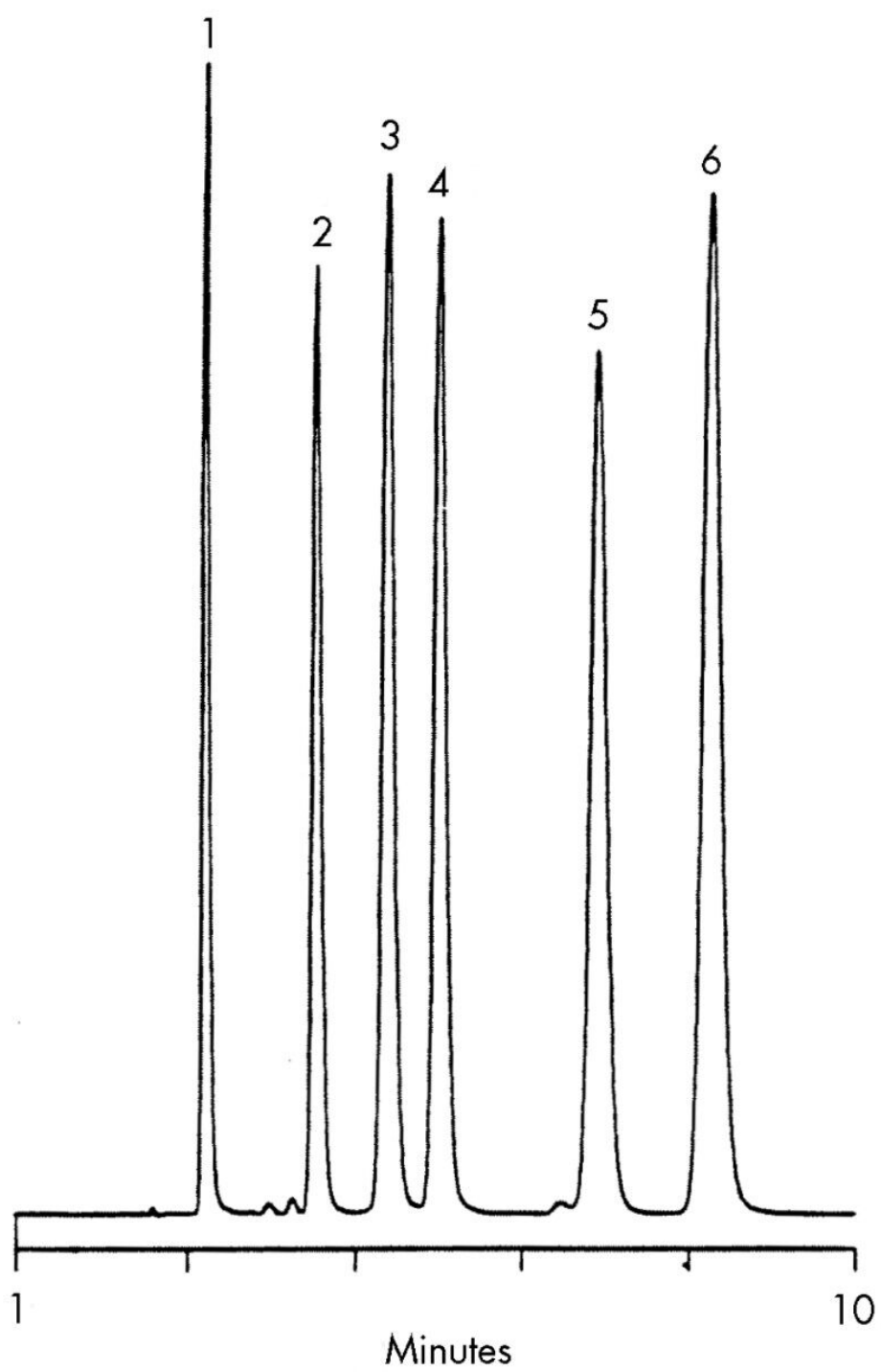
Mobile phase:

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

---

## Results and Discussion



---

Featured Products

WA31763.154, June 2003

© 2021 Waters Corporation. All Rights Reserved.