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Application Note

Sulfa Drugs in Serum

Waters Corporation



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

Abstract

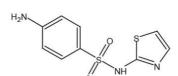
This application brief highlights the analysis of sulfa drugs in serum using Symmetry columns.

Introduction

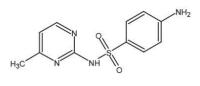
Compounds used in this study are:

- 1: Sulfadiazine
- 2: Sulfathiazole (I.S.)
- 3. Sulfamerazine

1. Sulfadiazine



2. Sulfathiazole (I.S.)



3. Sulfamerazine

Experimental

HPLC Method

Column: Symmetry C_{18} , 3.9 x 150 mm, 5 μ m (p/n:

WAT046980)

Mobile phase: 1% glacial acetic acid and 4% methanol in water

Flow rate: 1.0 mL/min

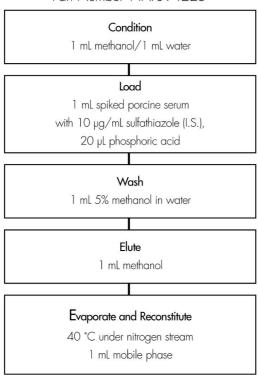
Injection volume: 10 µL of reconstituted porcine serum extract

Temperature: 25° C

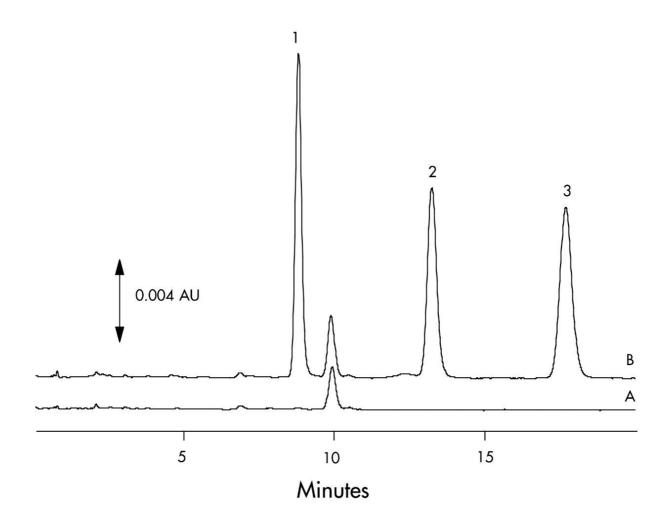
Detection: UV @ 254 nm

Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30 mg Extraction Cartridge Part Number WAT094225



Results and Discussion



| Compound | Concentration µg/mL | % Recovery | %RSD (n=6) |
|---------------|------------------------|------------|---------------|
| Sulfadiazine | 2.00 | 98.4% | 2.7% |
| Sulladiazine | 10.0 | 96.9% | 0.65% |
| Culfomorozino | 2.00 | 93.5% | 1.9% |
| Sulfamerazine | 10.0 | 96.4% | 0.74% |

| WA31763.155, June 2003 |
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