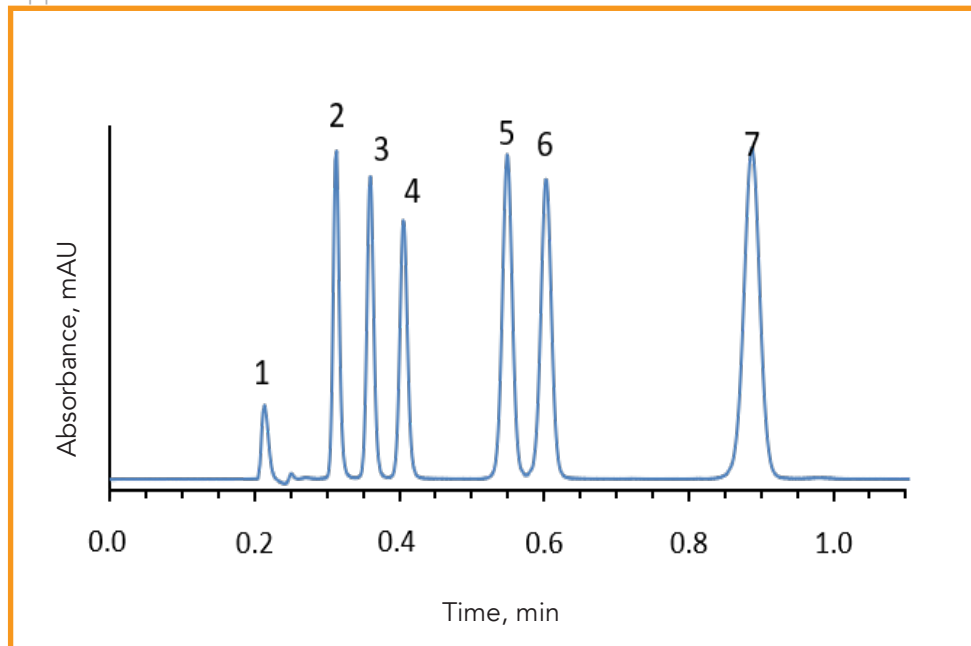




## Separation of Sulfa Drugs on HALO® RP-Amide

Application Note 11-AB



### PEAK IDENTITIES:

1. Uracil
2. Sulfathiazole
3. Sulfamerazine
4. Sulfamethizole
5. Sulfachloropyridazine
6. Sulfamethoxazole
7. Sulfadimethoxin

Sulfonamides, or sulfa drugs, are synthetic antibiotics used to treat bacterial infections. Six sulfa drugs are resolved in less than 1 minute on a HALO 90 Å RP-Amide column.

### TEST CONDITIONS:

**Column:** HALO 90 Å RP-Amide, 2.7 µm,  
4.6 x 50 mm

**Part Number:** 92814-407

**Mobile Phase:** 70/30 - A/B

A: 0.1% formic acid with 0.005 M  
ammonium formate, pH 3.0

B: Acetonitrile

**Flow Rate:** 2.0 mL/min

**Pressure:** 193 bar

**Temperature:** 35 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 0.5 µL

**Sample Solvent:** Methanol

**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

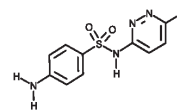
**LC System:** Shimadzu Prominence UFLC XR

**Extra column volume:** ~14 µL

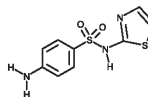
### STRUCTURES:



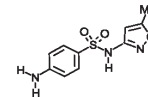
Uracil



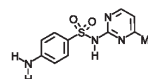
Sulfachloropyridazine



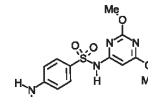
Sulfathiazole



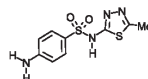
Sulfamethoxazole



Sulfamerazine



Sulfadimethoxine



Sulfamethizole

