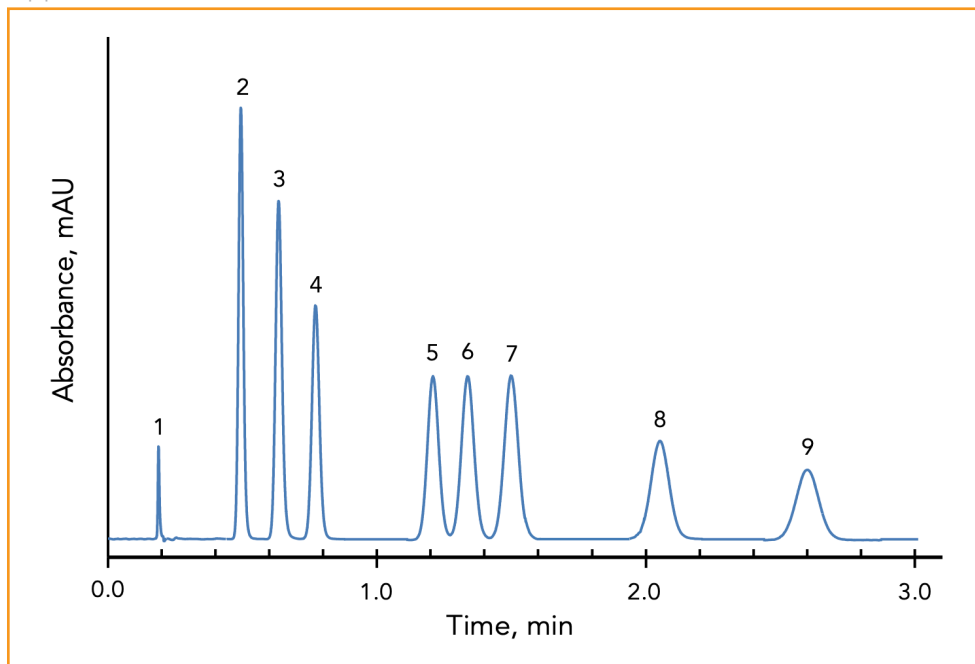




## Sulfa Drugs on HALO® C18, 5 µm

Application Note 108-AB



## PEAK IDENTITIES:

1. Uracil
2. Sulfadiazine
3. Sulfathiazole
4. Sulfamerazine
5. Sulfamethazine
6. Sulfamethizole
7. Sulfamethoxypyridazine
8. Sulfachloropyridazine
9. Sulfamethoxazole

This separation shows the rapid analysis of eight sulfa drugs on the HALO® C18 (5 µm) phase. The use of mixed organic solvents improved the selectivity between compounds having similar structures.

## TEST CONDITIONS:

**Column:** HALO 90 Å C18, 5 µm,  
4.6 x 50 mm

**Part Number:** 95814-402

**Mobile Phase:** 87/13 - A/B

A: 0.02 M ammonium formate, pH 3.0 (adj.)

B: 50/50 acetonitrile/methanol

**Flow Rate:** 2.5 mL/min

**Pressure:** 185 bar

**Temperature:** 30 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 1.0 µL

**Sample Solvent:** 50/50 water/acetonitrile

**Response Time:** 0.02 sec

**Data Rate:** 50 pps

**Flow Cell:** 2.5 µL semi-micro

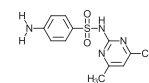
**LC System:** Shimadzu Prominence UFLC XR

**Extra column volume:** ~14 µL

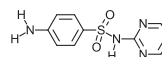
## STRUCTURES:



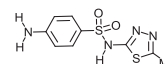
Uracil



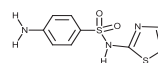
Sulfamethazine



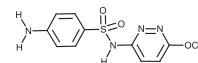
Sulfadiazine



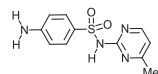
Sulfamethizole



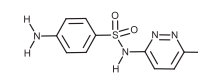
Sulfathiazole



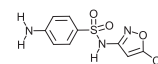
Sulfamethoxypyridazine



Sulfamerazine



Sulfachloropyridazine



Sulfamethoxazole

