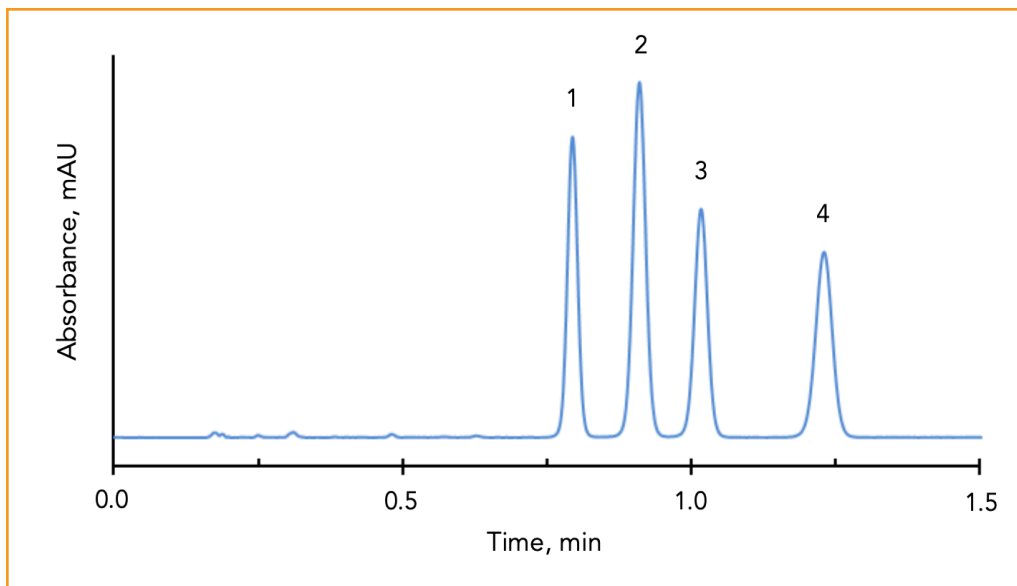




Rapid Isocratic Separation of Sulfonyl Urea Drugs on HALO® C18 Phase

Application Note 37-P



PEAK IDENTITIES:

1. Chlorpropamide
2. Glipizide
3. Acetohexamide
4. Tolazamide

The sulfonyl drugs are used in the treatment of diabetes. They can be separated in about 1.3 minutes using highly efficient HALO® Fused-Core® C18 columns.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-402

Mobile Phase: 63/37 - A/B

A: 0.02 M phosphate buffer, pH 3.0

B: Acetonitrile

Flow Rate: 2.5 mL/min

Pressure: 260 bar

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Acetonitrile

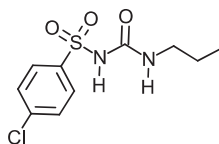
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

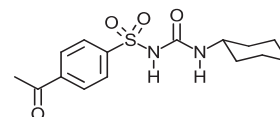
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

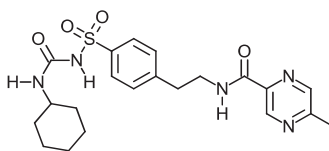
STRUCTURES:



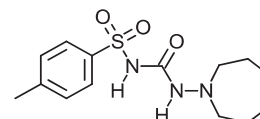
Chlorpropamide



Acetohexamide



Glipizide



Tolazamide

