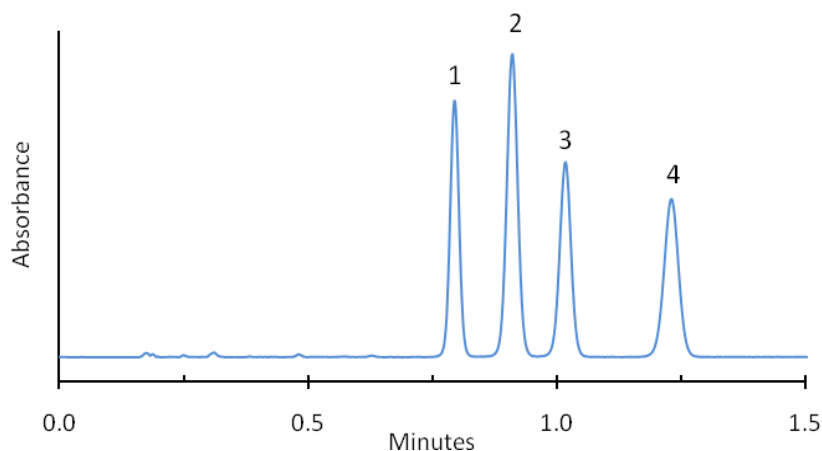


Application Note: 37-P

Rapid Isocratic Separation of Sulfonyl Urea Drugs on HALO C18 Phase



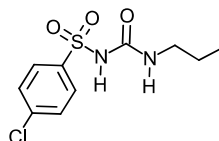
PEAK IDENTITIES:

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

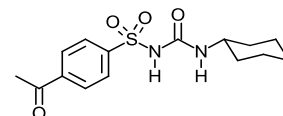
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO C18
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

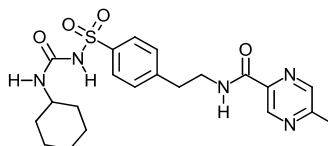
STRUCTURES:



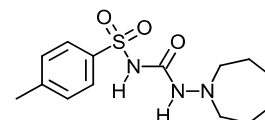
Chlorpropamide



Acetohexamide



Glipizide



Tolazamide

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.