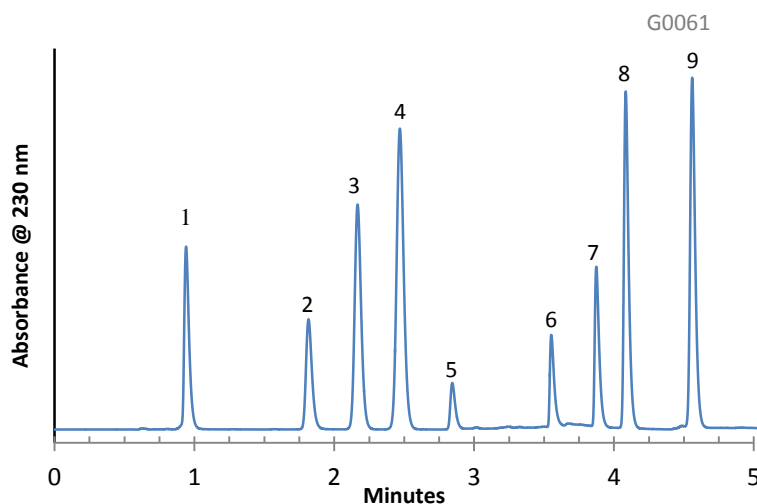


HALO® | Fused-Core® Particle Technology

Application Note: 078-DU

HPLC Separation of Diuretics on HALO Phenyl-Hexyl



PEAK IDENTITIES:

1. Amiloride
2. Caffeine
3. Chlorothiazide
4. Hydrochlorothiazide
5. Triamterene
6. Torsemide
7. Furosemide
8. Indapamide
9. Bumetanide

TEST CONDITIONS:

Column: 4.6 x 100 mm, HALO Phenyl-Hexyl
 Part Number: 92814-606
 Mobile Phase:
 A= 0.02 M Potassium phosphate buffer, (pH=3)
 B= Acetonitrile

Time	%B	Time	%B
0	15	3.0	50
1.7	15	7.0	60

Flow Rate: 1.5 mL/min.

Pressure: 253 Bar (@start of gradient)

Temperature: 30°C

Detection: UV 230 nm, VWD

Injection Volume: 2 µL

Sample Solvent: Acetonitrile

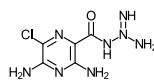
Response Time: 0.02 sec.

Flow Cell: 2.5 µL semi-micro

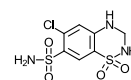
LC System: Shimadzu Prominence UFLC XR

ECV: ~14 µL

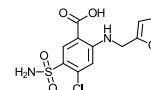
STRUCTURES:



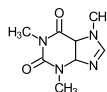
Amiloride



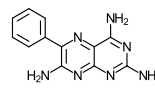
Hydrochlorothiazide



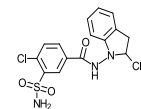
Furosemide



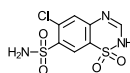
Caffeine



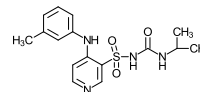
Triamterene



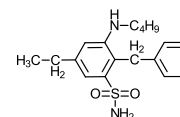
Indapamide



Chlorothiazide



Torsemide



Bumetanide

This separation illustrates the utility of HALO Fused-Core Phenyl-Hexyl phase in the rapid analysis of common diuretics.