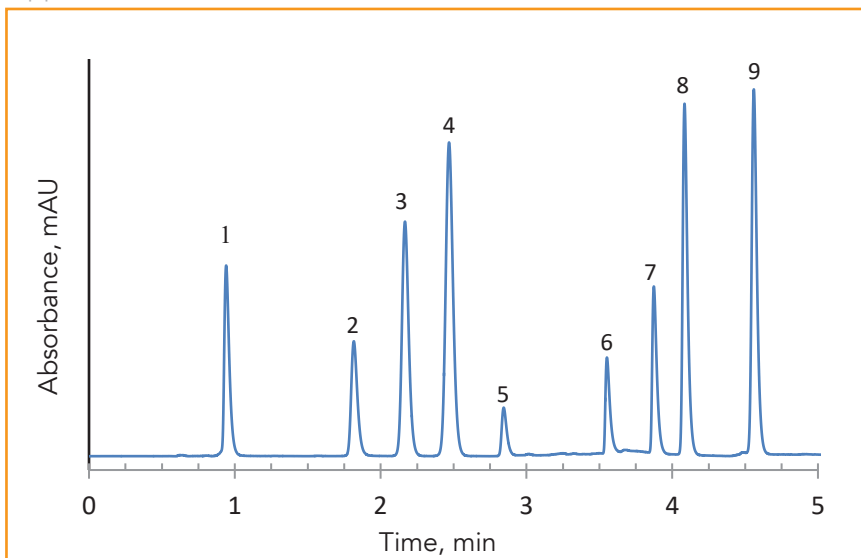




## HPLC Separation of Diuretics on HALO® Phenyl-Hexyl

Application Note 78-DU



### PEAK IDENTITIES:

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

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

### TEST CONDITIONS:

**Column:** HALO 90 Å Phenyl-Hexyl, 2.7 µm,  
4.6 x 100 mm

**Part Number:** 92814-606

#### Mobile Phase:

A: 0.02 M potassium phosphate buffer,  
pH 3.0

B: Acetonitrile

Gradient:	Time (min)	% B
	0.0	15
	1.7	15
	3.0	50
	7.0	60

**Flow Rate:** 1.5 mL/min

**Initial Pressure:** 253 bar

**Temperature:** 30 °C

**Detection:** UV 230 nm, VWD

**Injection Volume:** 2.0 µL

**Sample Solvent:** Acetonitrile

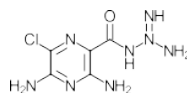
**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

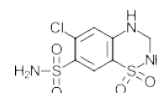
**LC System:** Shimadzu Prominence UFLC XR

**Extra column volume:** ~14 µL

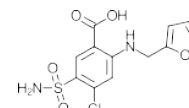
### STRUCTURES:



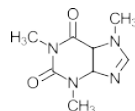
Amiloride



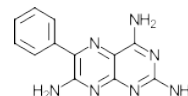
Hydrochlorothiazide



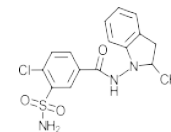
Furosemide



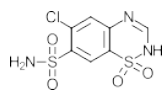
Caffeine



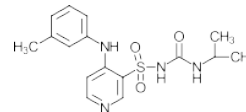
Triamterene



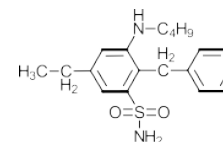
Indapamide



Chlorothiazide



Torsemide



Bumetanide

