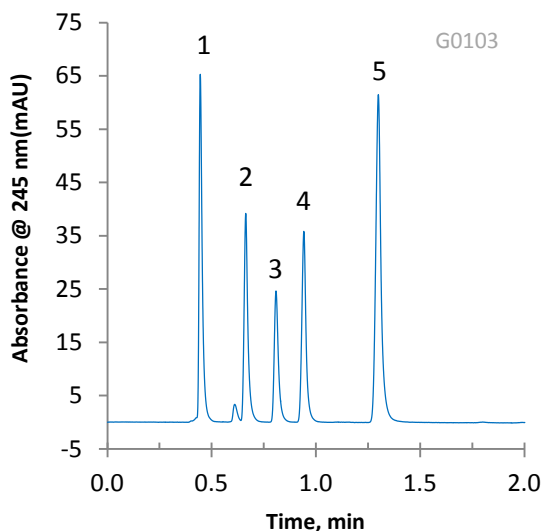


Application Note: 119-B

Separation of Local Anesthetics on HALO 2 Penta-HILIC



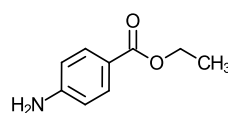
PEAK IDENTITIES:

1. Benzocaine
2. Lidocaine
3. Tetracaine
4. Procaine
5. Procainamide

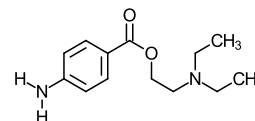
TEST CONDITIONS:

Column: 2.1 x 100 mm, HALO 2 Penta-HILIC
 Part Number: 91812-605
 Isocratic: 92/8:ACN/water with 5 mM
 Ammonium Formate buffer, pH 3
 Flow Rate: 0.5 mL/min.
 Pressure: 229 bar
 Temperature: 30°C
 Detection: UV 245 nm, PDA
 Injection Volume: 1 µL
 Sample Solvent: 90/10 ACN/0.1 M
 Ammonium Formate buffer, pH 3
 Data Rate: 40 Hz
 Response Time: 0.1 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Agilent 1200 SL

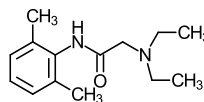
STRUCTURES:



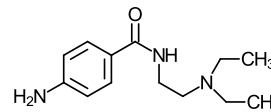
Benzocaine



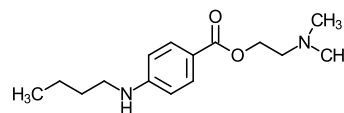
Procaine



Lidocaine



Procainamide



Tetracaine

HALO 2 Penta-HILIC separates these five local anesthetics with good peak shape in less than 1.5 minutes.