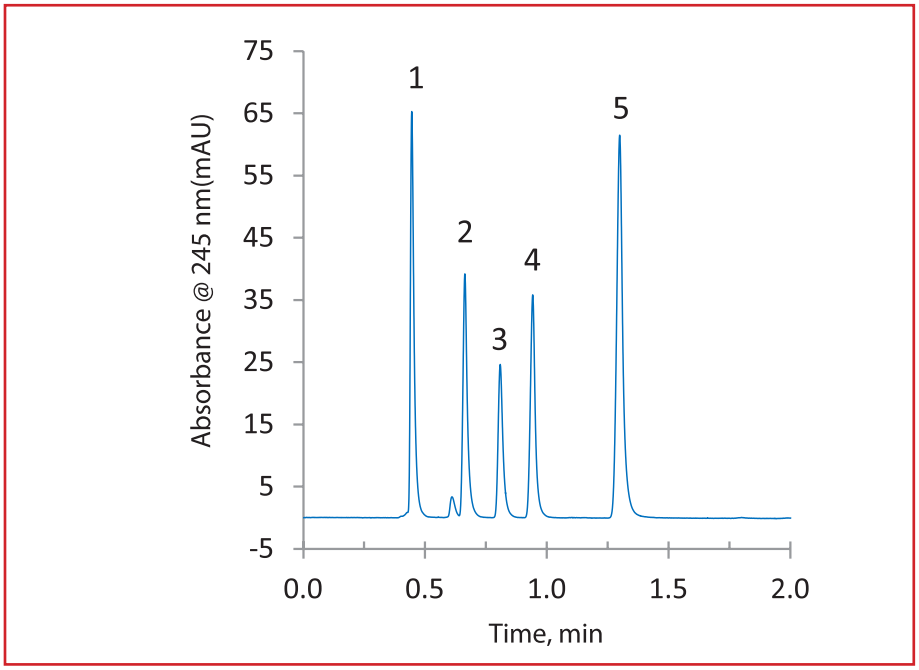
HALO®

CLINICAL / TOXICOLOGY

Separation of Local Anesthetics on HALO® Penta-HILIC, 2.0 µm

Application Note 119-B



PEAK IDENTITIES:

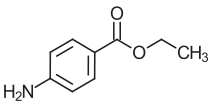
1. Benzocaine
2. Lidocaine
3. Tetracaine
4. Procaine
5. Procainamide

The separation of these basic anesthetics shows the utility of the 2.0 µm HALO® Penta-HILIC phase for basic compounds. The highly efficient Fused-Core® particles allow complete separation of these compounds in less than 1.5 minutes.

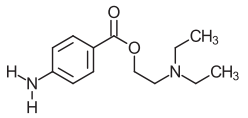
TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.0 µm, 2.1 x 100 mm
Part Number: 91812-605
Isocratic: 92/8 ACN/water with 5 mM ammonium formate buffer, pH 3.0
Flow Rate: 0.5 mL/min
Pressure: 229 bar
Temperature: 30 °C
Detection: UV 245 nm, PDA
Injection Volume: 1.0 µL
Sample Solvent: 90/10 ACN/0.1 M ammonium formate buffer, pH 3.0
Response Time: 0.1 sec
Data Rate: 40 Hz
Flow Cell: 2.5 µL semi-micro
LC System: Agilent 1200 SL

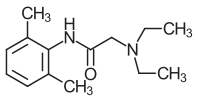
STRUCTURES:



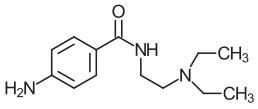
Benzocaine



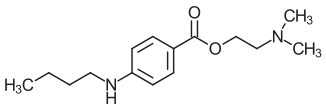
Procaine



Lidocaine



Procainamide



Tetracaine

fused-core.com