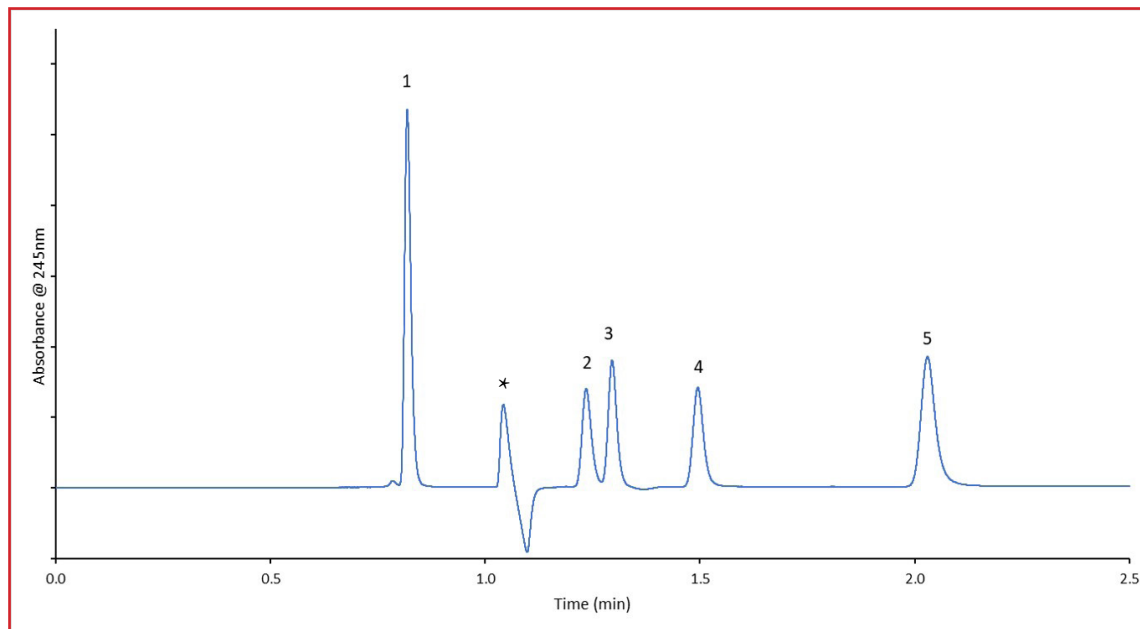




## Separation of Local Anesthetics using the HALO® 1.5 mm ID Penta-HILIC Column

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### PEAK IDENTITIES:

1. Benzocaine
  2. Tetracaine
  3. Lidocaine
  4. Procaine
  5. Procainamide
- \* system peak from ammonium formate

### TEST CONDITIONS:

**Column:** HALO 90 Å Penta-HILIC 2.7  $\mu\text{m}$  1.5 x 150 mm  
**Part Number:** 9281X-705  
**Mobile Phase A:** 25mM Ammonium Formate, pH= 3.0  
**Mobile Phase B:** ACN  
**Isocratic:** Premixed 10/90 A/B  
**Flow Rate:** 0.2 mL/min  
**Pressure:** 173 Bar  
**Temperature:** 30 °C  
**Detection:** UV 245 nm, PDA  
**Injection Volume:** 0.2  $\mu\text{L}$   
**Sample Solvent:** ACN  
**Data Rate:** 100 Hz  
**Response Time:** 0.025 sec.  
**Flow Cell:** 1  $\mu\text{L}$   
**LC System:** Shimadzu Nexera X2

A local anesthetic panel is separated using the HALO® 1.5 mm ID Penta-HILIC column. Local anesthetics are safe and provide great efficacy in the medical field. While the use of these anesthetics is routine, there are other pharmacological properties that anesthesiologists must be aware of when administering. Due to this understanding how much of each anesthetic is administered to a patient is critical in maintaining their safety. By introducing the HALO® Penta-HILIC in the 1.5 mm ID, the sensitivity of anesthetic compounds can be increased over the larger ID's while decreasing the solvent usage.

