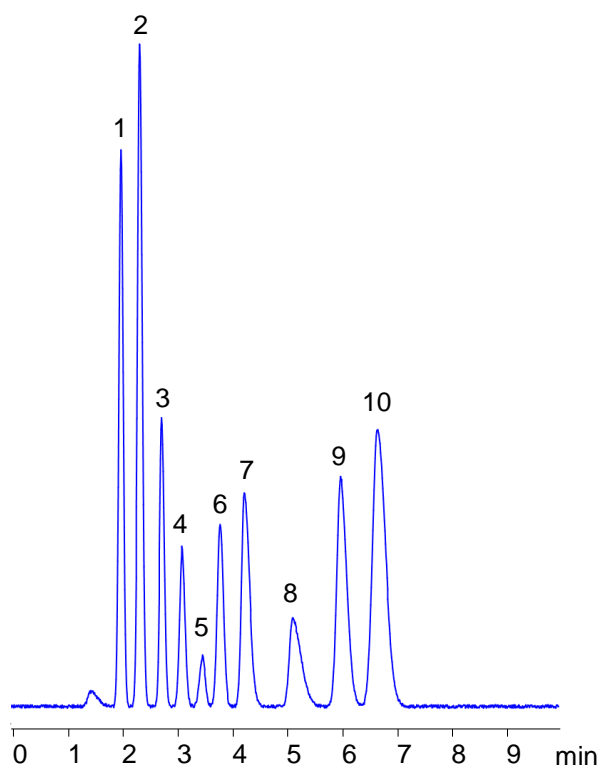


HPLC UV Analysis of Four Basic Drugs and Six Acidic Counterions on Heritage MA Mixed-Mode Column



1. Chlorpheniramine
2. Brompheniramine
3. Acetic acid
4. Lactic acid
5. Iodide ion
6. Succinic acid
7. Malic acid
8. Saccharic acid
9. Propranolol
10. Dextromethorphan

Column: Heritage MA
Dimensions: 4.6x150 mm, 3 μ m, 100A
Mobile phase: ACN/Water/Ammonium Phosphate
Flow rate: 1 ml/min
Detection: 205 nm

Application Notes

Mixed-mode chromatography can be used for analysis of drugs and counterions in one isocratic run. Since you can adjust retention time and selectivity independent for drugs and counterions, your strategy can be either analyze and quantify both- counterion and the drug, or you can just quantify the counterions while either eluting all components of the drug composition before or after the counterion. Some methods are UV, and some require a secondary detection technique for non-UV active counterions. Mobile phase composition can be tailored to your detection technique. You can use any acid or salt buffers within the recommended pH range which are suitable for use with your detector. No ion-pairing reagents are required to retain and separate hydrophilic counterions. Heritage MA mixed-mode column is reversed-phase and anion-exchange column which retains and separates compounds by RP, anion-exchange and cation-exclusion interactions. Retention time and selectivity is adjusted by ACN, buffer pH, buffer concentration and nature of the buffer. The possibilities are truly endless on what you can do with mixed-mode columns. Learn more at www.helixchrom.com.