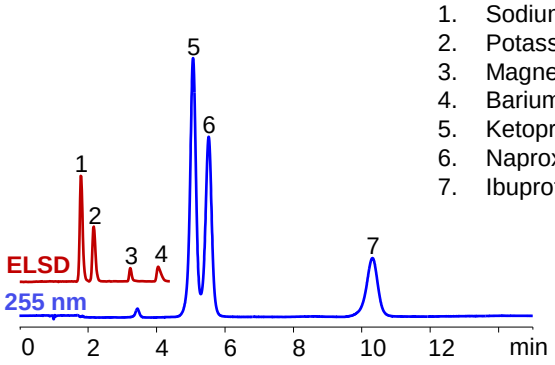
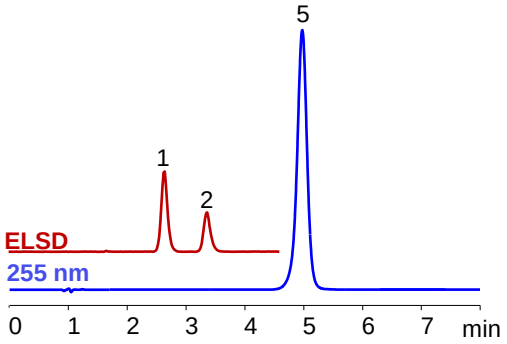
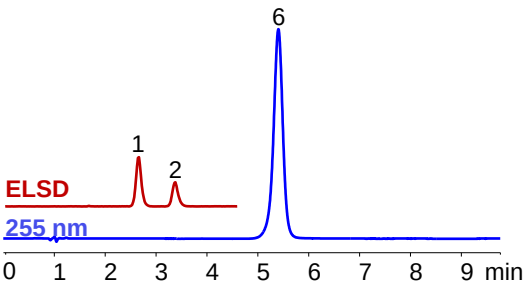
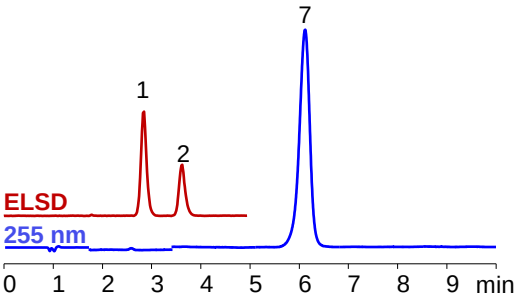
HPLC Analysis of Acidic Drugs, Monovalent and Divalent Basic Counterions on Amaze SC Mixed-Mode Column

1. Sodium Ion
2. Potassium ion
3. Magnesium ion
4. Barium ion
5. Ketoprofen
6. Naproxen
7. Ibuprofen









Column:	Amaze SC
Dimensions:	3.0 x 100 mm, 5 um, 100A
Mobile phase:	ACN/Water/Ammonium Formate pH 3
Flow rate:	0.6 ml/min
Detection:	255 nm and ELSD (50°C)

Application Notes

Most of the drugs exist as various kinds of salts. Whether these are acidic drugs and basic counterion, or basic drugs or acidic counterions they are usually analyzed by two methods - one to analyze a drug by reversed-phase or HILIC chromatography and another one is an analysis of counterion either by wet chemistry or ion-exchange chromatography. Mixed-mode columns retain compounds by RP/ion-exchange or by HILIC/ion-exchange. These properties allow to analyze drugs and their counterions with one method. Here are application for the analysis of acidic drugs and basic counterions. Drugs are retained by a combination of reversed-phase and anion-exclusion mechanisms and basic counterions are retained by the cation-exchange mechanism. Order of elution for drugs and counterions can be changed by adjusting the composition of the mobile phase and changing the amount of ACN, buffer concentration, and buffer pH. Visit www.helixchrom.com to learn more.