"Scale Your Peaks"
Application Notes

HELIX
CHROMATOGRAPHY

www.helixchrom.com

Mixed-Mode HPLC Columns for Analysis of Drugs.
Separation of Dextromethorphan and Related Impurities.

1. Unknown 1
2. Unknown 2
3. Impurity A
4. Unknown 3
5. Impurity D
6. Impurity C
7. Dextromethorphan
8. Unknown 4
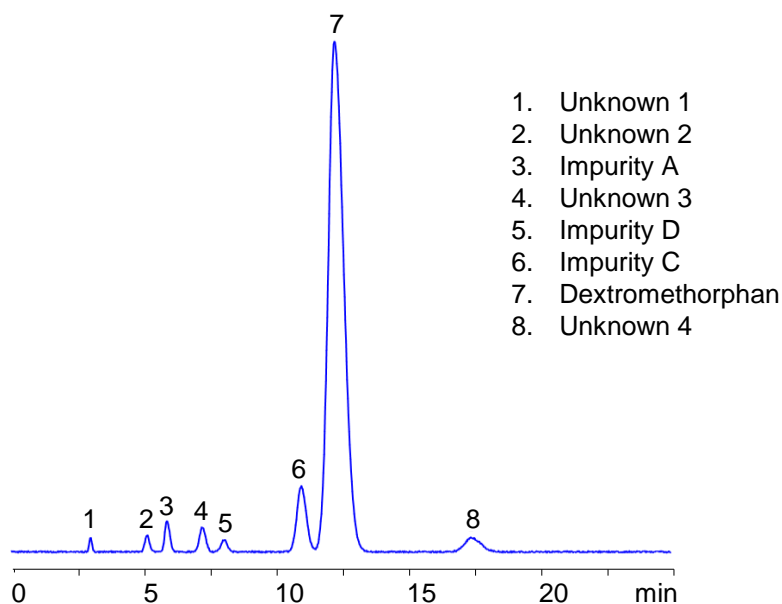
Column: Amaze SC
Dimensions: 3.0x100 mm, 3 um, 100A
Mobile phase: ACN/Water/Ammonium phosphate gradient
Flow rate: 0.6 ml/min
Detection: 235 nm
Injection: 5 uL

Application Notes

The unique selectivity of mixed-mode columns makes them a perfect tool for the analysis of drugs and related impurities. Since you are exploring several mechanisms of interaction (RP, HILIC, cation-exchange, anion-exchange, cation-exclusion, and anion-exclusion. You can analyze a broad range of compounds, which are different in nature in one run. Add the huge capacity of these columns towards ionizable compounds and you have a friendly approach for prep separations. In most cases, you can move minor peaks before your main peak in order to have better preparative isolation of these impurities. You can use a wide variety of buffers and additives, based on your detective techniques, sample nature, and properties of analytes. These columns are fully compatible with mass spectrometry, due to the ion-pairing reagent being attached to the surface of silica gel. Here is an application for analysis of dextromethorphan and related impurities. Add these columns to your arsenal and you will be victorious in any separation. Contact us if you don't know how to develop a robust method or if you just want to discuss your applications.