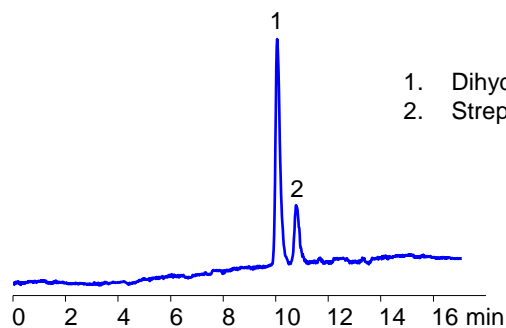


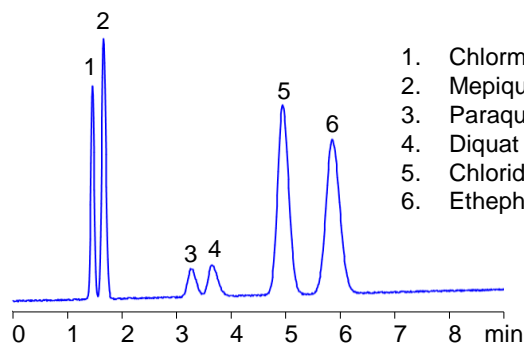
How Powerful is the New Amaze TCH HILIC Column from Helix? Part 2.



1. Dihydrostreptomycin
2. Streptomycin

Column: Amaze TCH
Dimensions: 3.0x100 mm, 3 μ m, 100A
Mobile phase: 75% ACN with 50 mM AmFm pH 2.7
Flow rate: 0.6 ml/min
Detection: ELSD, 45°C

Fig. 1 HPLC Separation of Dihydrostreptomycin and Streptomycin in HILIC, Cation-Exchange Modes on Amaze TCH Column



1. Chlormequat
2. Mepiquat
3. Paraquat
4. Diquat
5. Chloride ion
6. Ethephon

Column: Amaze TCH
Dimensions: 4.6x150 mm, 3 μ m, 100A
Mobile phase: from 80% ACN with 5 mM ammonium formate pH 3.5 to 40% ACN with 30 mM ammonium formate pH 3.5 in 10 min
Flow rate: 1 ml/min
Detection: Corona CAD

Fig. 2 HPLC Separation of Basic Quaternary and Acidic Herbicides in HILIC, Cation- and Anion-Exchange Modes on Amaze TCH Column

Application Notes

We have previously introduced to you our new HILIC Column - Amaze TCH and presented two methods for you.

We now would like to share another two interesting applications. If you ever tried to separate dihydrostreptomycin and streptomycin and paraquat/diquat, you know that it is not an easy task. The unique chemistry of the Amaze TCH column allows you to explore very small differences in the properties of the analytes to achieve baseline resolution. Add the ability to do this without ion-pairing reagent and you have a powerful tool for LC/MS applications.

Here are a few highlights of our new HILIC column:

- Unique multifunctional ligand
- Ability to explore HILIC, RP, cation-exchange, anion-exchange, and chelating mechanisms
- Optimized ligand density to retain and separate poly-charged compounds with low buffer concentration
- Compatibility with mass spectrometry. Most of the mobile phases consist of ACN/water with a low buffer concentration (5-20 mM) or a low concentration of formic or acetic acid (0.02-0.15%)
- Availability of 2.2, 3, and 5 μ m particles as well as 2.7 μ m core-shell particle for high efficiency/high selectivity separations
- Availability of 10, 20, and 50 μ m particles for preparative separations.

Add this powerful tool to your "war chest" and develop applications like nobody else. See more at www.helixchrom.com