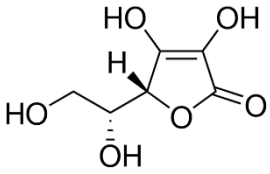
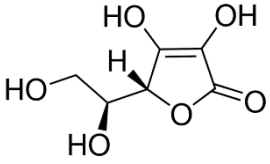
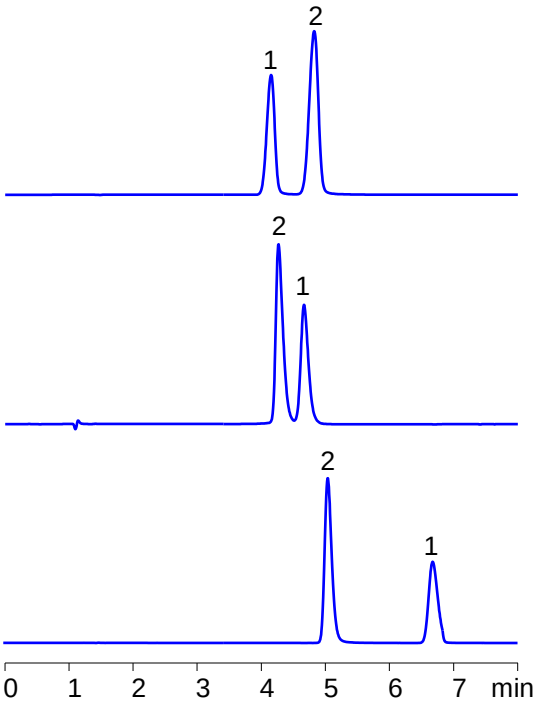
HPLC Separation of Isomers of Ascorbic Acid in HILIC and Reversed-Phase Mixed-Mode

1. Isoascorbic acid



2. Ascorbic acid





Column: Amaze HD
Dimensions: 3.0x100 mm, 3 um,100A
Mobile phase: ACN/Water/Ammonium acetate pH 4
Detection: 280 nm

Column: Amaze HA
Dimensions: 3.0x100 mm, 3 um,100A
Mobile phase: ACN/Water/Ammonium phosphate pH 4
Detection: 280 nm

Column: Coresep SB
Dimensions: 4.6x150 mm, 2.7 um, 90A
Mobile phase: ACN/Water/Ammonium phosphate pH 4
Detection: 280 nm

Application Notes

Mixed-mode mode columns from Helix Chromatography are designed to address tough separations. Whether you are exploring HILIC mixed-mode or reversed-phase mixed mode, you can always count on the unique selectivity and superpower of mixed-mode separations. Here is an example of the separation of ascorbic and isoascorbic acids in HILIC anion-exclusion modes (Amaze HD) and reversed-phase anion-exchange modes (Amaze HA and Coresep SB). Add full compatibility with mass spectrometry, and you have a powerful tool capable of reducing your method development time and thus method development cost. If you are in doubt about which column and conditions to use, call or email us, and we'll gladly help you with your method development needs. See more at www.helixchrom.com to keep up with the latest advances in mixed-mode chromatography.