

Comparison of Obelisc N, SeQuant® HILIC, and Bare Silica

<https://sielc.com/Application-Comparison-of-Obelisc-N-SeQuant-HILIC-and-Bare-Silica>

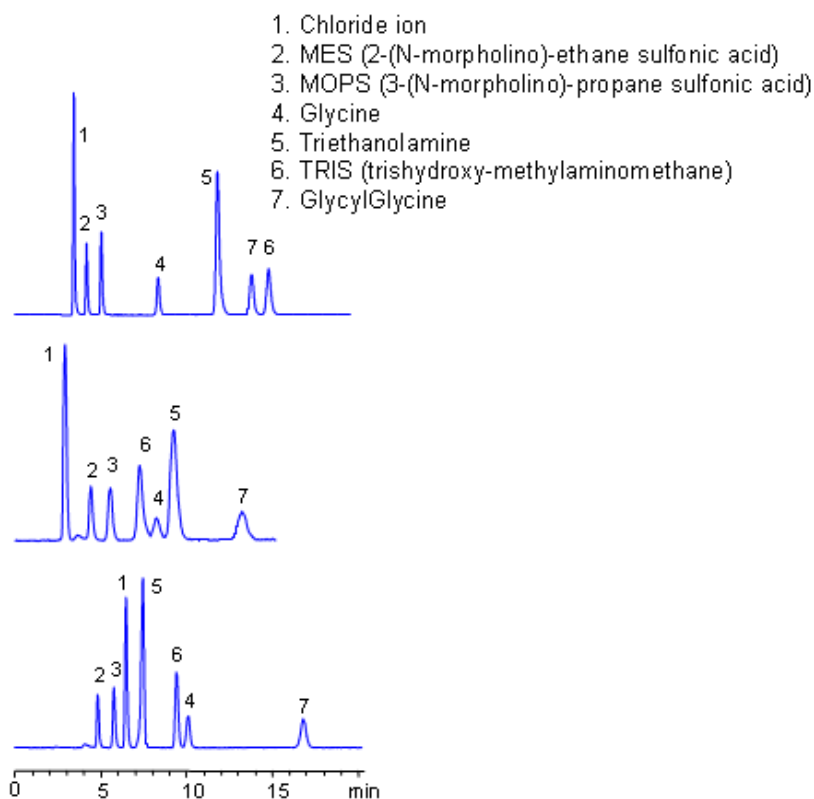
Chromatogram

Column size: 150 x 4.6 mm
Mobile phase: 75% MeCN
20mM AmAc pH 4
Column temp: 35C
Detection: ELSD
Flow rate: 1 mL/min

Column: Obelisc N

Column: Kromasil® Silica

Column: SeQuant® ZIC-HILIC



Description

Obelisc N mixed-mode columns provide different selectivity than other HILIC columns — presence of ion-exchange mechanism contributes to a different selectivity. Depending on the pH of the mobile phase, ion-exchange mechanism can be enhanced or suppressed. Two amino acids (glycine and glycylglycine), two basic compounds (triethanolamine and TRIS) and two zwitter-ionic compounds (MOPS and MES) are separated by combination of HILIC and ion-exchange mechanisms. Compounds elution can be monitored by Evaporative Light-Scattering Detector (ELSD), Corona (CAD), LC/MS or other detection techniques.