

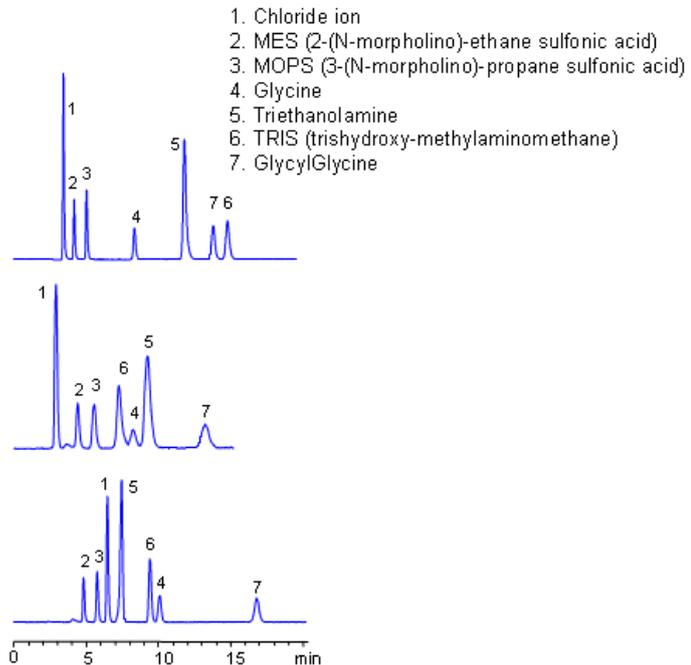
## Comparison of Obelisc N, SeQuant® HILIC, and Bare Silica

**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



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.

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

### Method Parameters

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