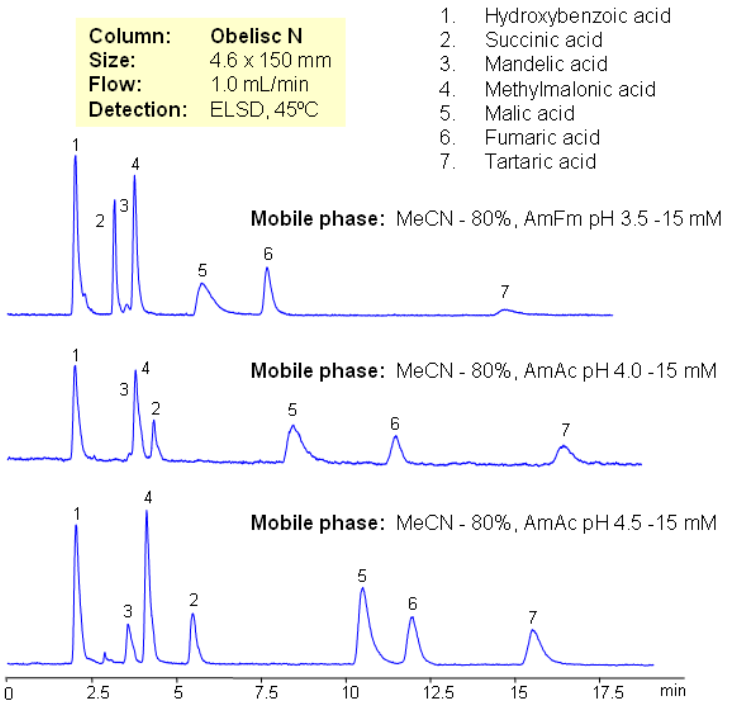
HILIC Separation of Carboxylic Acids



Hydrophilic acids are separated on Obelisc N mixed-mode HILIC column. Seven carboxylic acids are separated based on their polarity and pKa values. Changes in ionization states of acids and stationary phase can be used to control elution order of organic and inorganic acids.

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

Detection	ELSD Detection

Quelle: https://sielc.com/Application-HILIC-Separation-of-Carboxylic-Acids