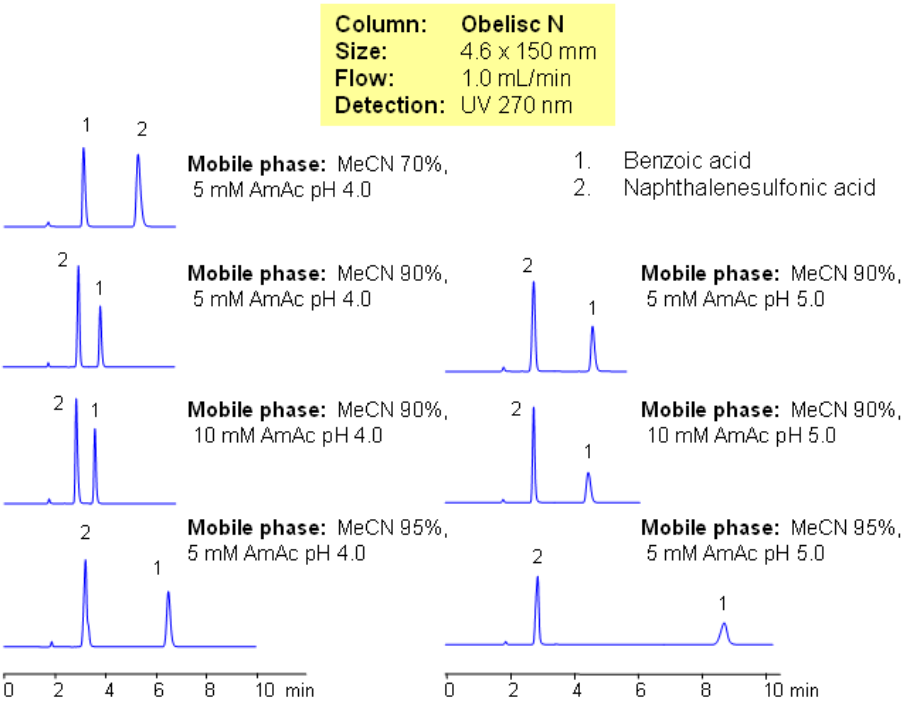
HILIC Separation of Aromatic Acids



Obelisc N column are used for separation of weak and strong organic acids in mixed-mode HILIC. Benzoic and naphthalenesulfonic acids are retained based on polar interaction mode and anion-exchange mode. Order of elution and retention pattern can be changed by modifying mobile phase. PH of the mobile phase changes ionization state of stationary phase and analytes. Fast quantitation method for benzoic and naphthalenesulfonic acid can be developed using UV, ELSD or LC/MS detection. HPLC Method can be used for mixture of organic and inorganic strong and weak 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

Column	Obelisc N, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	AmAc
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

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

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