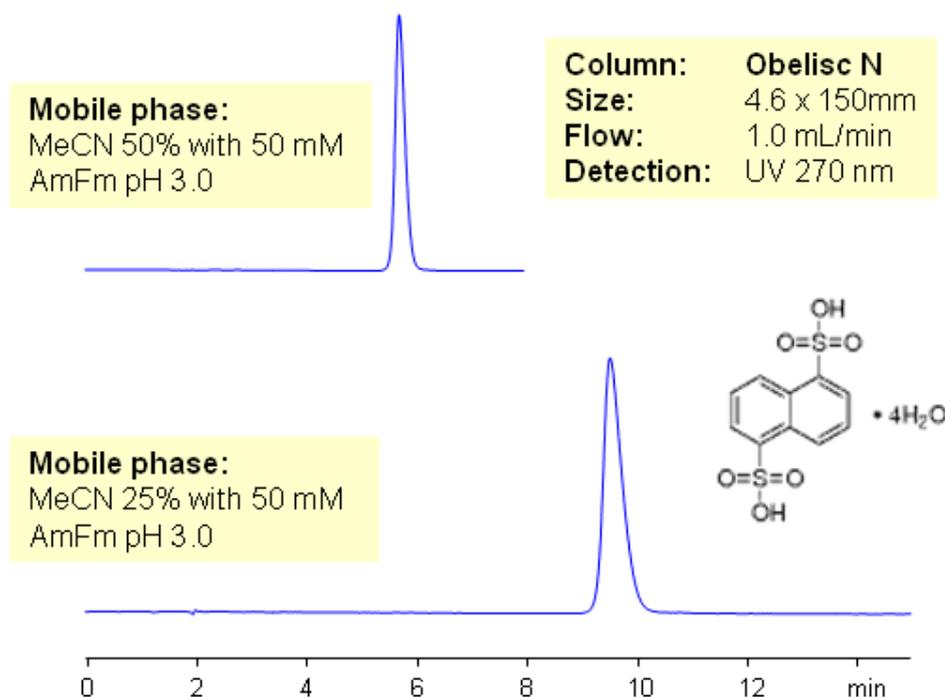


HILIC Retention of 1,5-Naphthalenedisulfonic Acid on Obelisc N Mixed-Mode HILIC Columns



Naphthalenedisulfonic acid is retained by anion-exchange mechanism on Obelisc N mixed-mode HILIC column. Retention time is controlled by amount of ion in the mobile phase. Method demonstrates very good peak shape and controllable retention. This mixed-mode approach can be used for quantitation of various sulfonic acid in different matrices. UV, ELSD or LC/MS can be used for quantitation.

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 , 4.6x150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O
Buffer	AmFm pH 3.0
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: <https://sielc.com/Application-HILIC-Retention-of-1-5-Naphthalenedisulfonic-Acid-on-Obelisc-N-Mixed-Mode-HILIC-Columns>