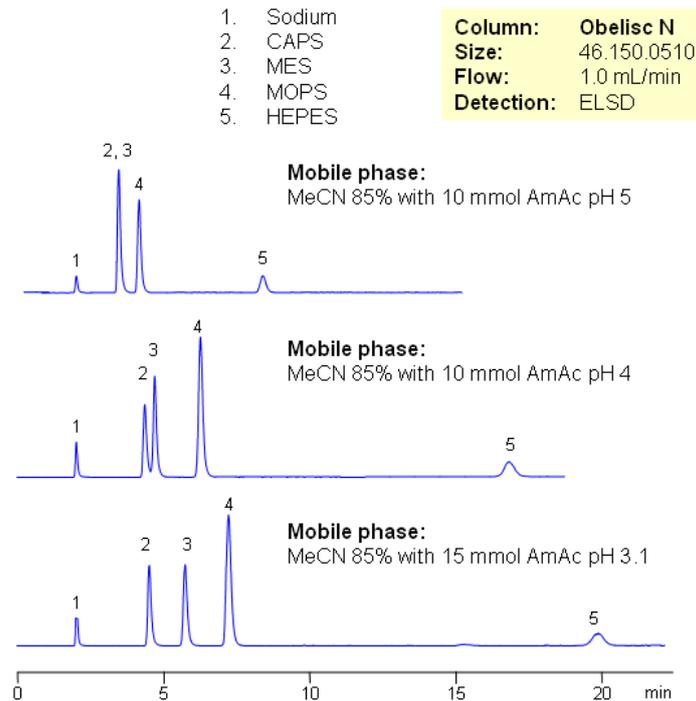


## Effect of Buffer on HPLC Separation of Buffers



HEPES, CAPS, MES and MOPS are zwitterionic organic chemical buffering agents. These are very polar compounds which are not retained by traditional reverse phase chromatography. These compounds are zwitterions in nature and can be separated by mixed-mode hydrophilic interaction chromatography on Obelisc N column. Retention is achieved by combination of HILIC and ion-exchange mechanisms. These buffering agents do not have UV active groups, but can be analyzed with ELSD, LC/MS, and CAD detection.

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-Effect-of-Buffer-on-HPLC-Separation-of-Buffers>