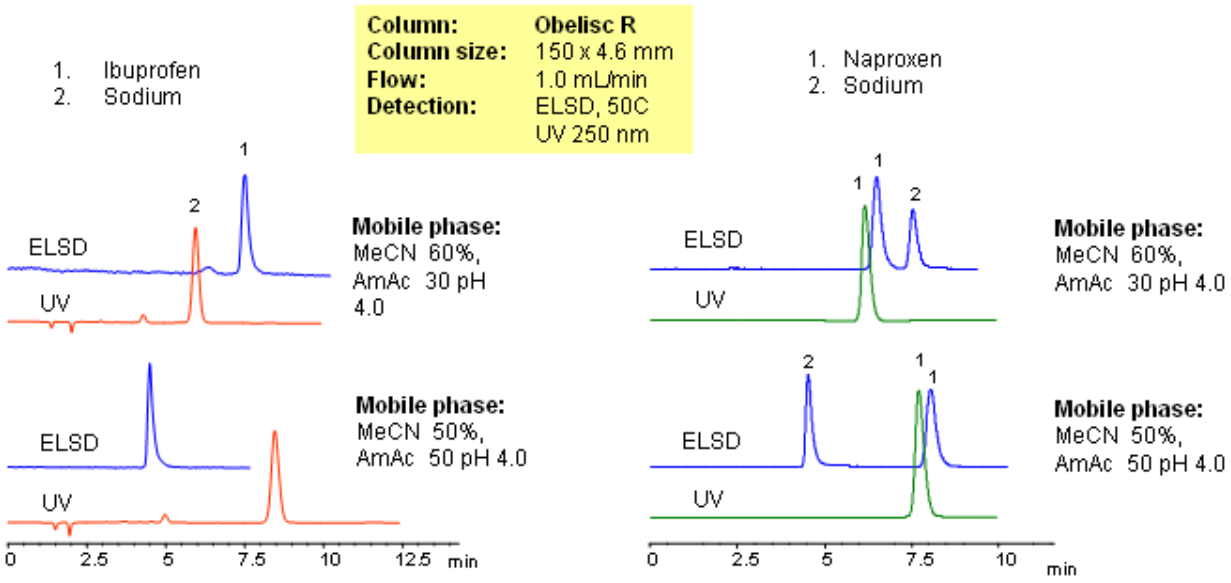
HPLC Separation of Acidic Drugs and Counter-Ions on Obelisc R Column



Mixed-mode columns allow to quantitate drugs and their counter-ions in one run. Hydrophobic acidic drug and hydrophilic inorganic counter-ions are separated and quantified on an Obelisc R HPLC trimodal column. This column can be used to quantify hydrophilic basic and hydrophilic acidic drugs, hydrophobic basic and hydrophobic acidic drugs, and corresponding organic and inorganic counter-ions. Various detection techniques can be applied to obtain reliable and robust method. Mixed-mode chromatography allows to retain ionizable compounds without ion-pairing reagent. This HPLC method can be adopted as universal and robust approach for analysis basic and acidic drugs and their counter-ions. Method is compatible with various detection techniques – ELSD, UV, CAD, and LC/MS.

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-HPLC-Separation-of-Acidic-Drugs-and-Counter-Ions-on-Obelisc-R-Column

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