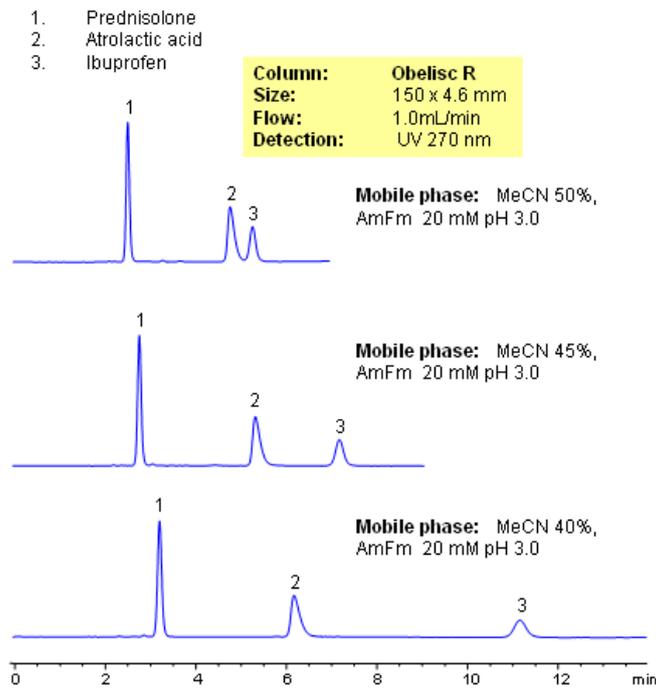


HPLC Separation of Prednisolone, Atrolactic Acid, and Ibuprofen on Mixed-Mode Column



Prednisolone, atrolactic acid, and ibuprofen were separated in one HPLC run on an Obelisc R HPLC column. Obelisc R columns have C12 carbon chain and basic and acidic groups on the surface of silica gel. Compounds are separated by combination of reversed-phase, cation-exchange, and anion-exchange mechanisms. Obelisc R column can be used for retention and separation of acidic and basic hydrophilic compounds, acidic and basic hydrophobic compounds, and neutral compounds. Elution is monitored by common detection techniques like UV, ELSD, 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	UV Detection
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Quelle:

<https://sielc.com/Application-HPLC-Separation-of-Prednisolone-Atrolactic-Acid-and-Ibuprofen-on-Mixed-Mode-Column>