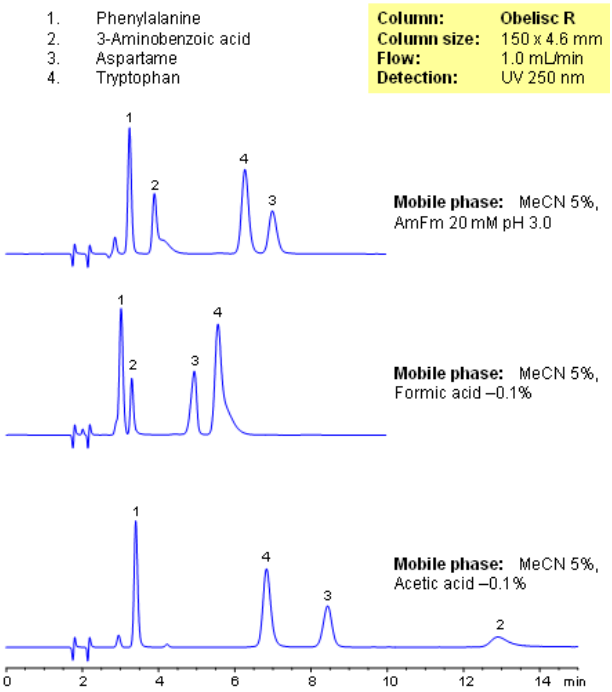
HPLC Separation of Amino Acids on Obelisc R Column



Closely related compounds like amino acids can be separated on an Obelisc R column by various buffers depending on the amount of baseline separation required. By choosing different buffers, the separation between compounds can be adjusted based on application needs, especially those that require low organic concentration in the mobile phase. UV detection at 250 nm.

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 R, 4.6×250 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 5/95%
Buffer	AmFm
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: https://sielc.com/Application-HPLC-Separation-of-Amino-Acids-on-Obelisc-R-Column