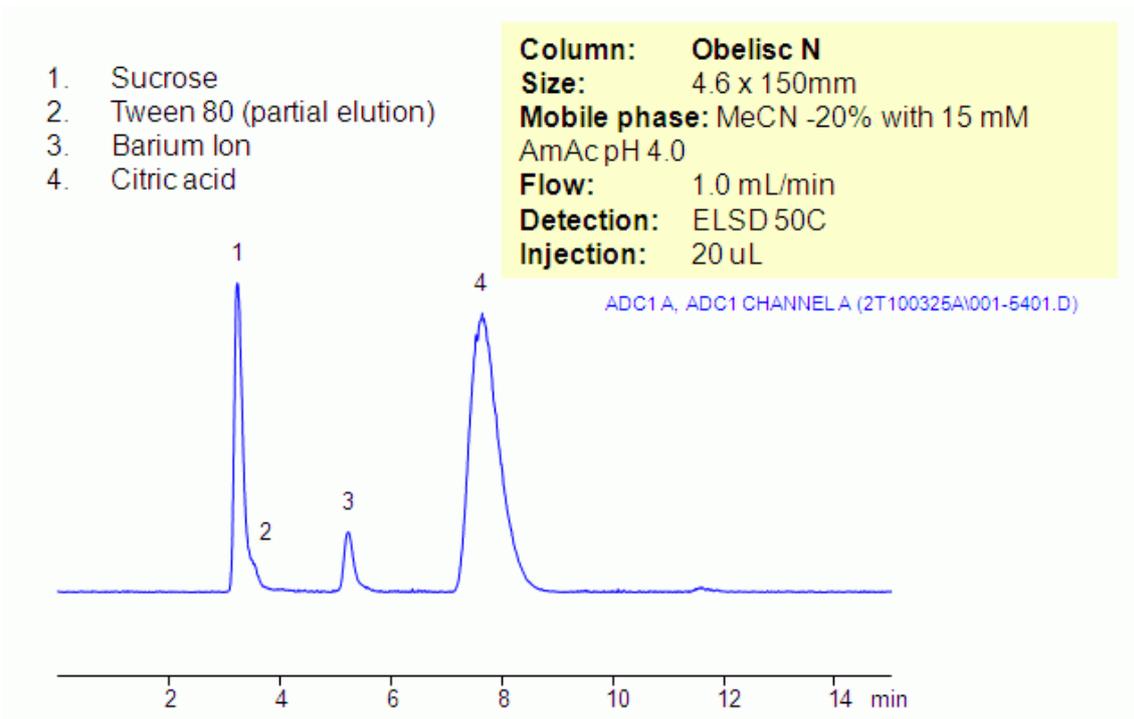


HPLC Separation of Barium Cation in the Presence of Citric Acid, Sucrose and Tween 80



Barium ion and citric acid are analyzed in the presence of sucrose and Tween 80 on Obelisc N HILIC mixed-mode column. Both compounds are retained in ion-exchange mode and HILIC is not employed with this method. Obelisc N HPLC column has basic and acidic ion-exchange groups separated by long hydrophilic chain. Presence of that long chain allows both cation- and anion-exchange mechanisms to exist simultaneously. Obelisc N column can be used for analysis of cation and anions in HILIC/ion-exchange mode and in ion-exchange mode. Analytes can be monitored by 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

Column	Obelisc N, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN
Buffer	AmAc pH 4.0
Flow Rate	1.0 mL/min
Detection	ELSD

Quelle: <https://sielc.com/Application-HPLC-Separation-of-Barium-Cation-in-the-Presence-of-Citric-Acid-Sucrose-and-Tween-80>