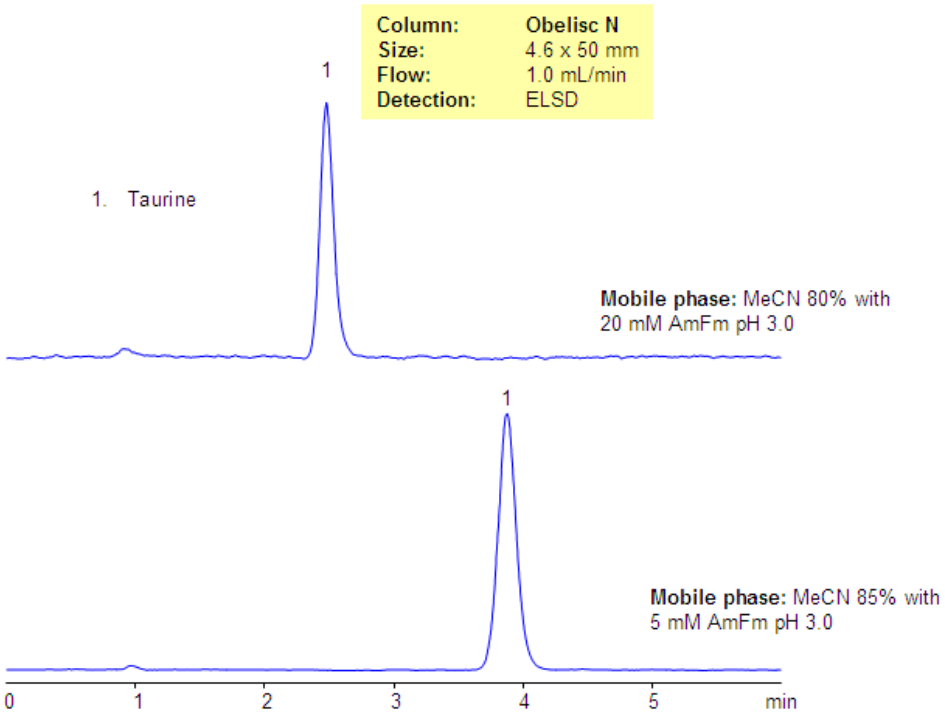
Retention of Taurine on Obelisc N Column



Taurine, or 2-aminoethanesulfonic acid, is a very polar zwitter-ionic compound. Taurine is used as an additive for various nutrition composition. The polar and zwitter-ionic nature of taurine prevent it from analysis by RP chromatography, in addition to that, taurine is not UV active and cannot be monitored by UV. The analytical method for analysis of taurine was developed on the Obelisc N HILIC/mixed-mode column. This method with some modifications can be used for the analysis of taurine in complex mixtures with a ELSD or a LC/MS detector.

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, 4.6×50 mm, 5 µm, 100 Å
Mobile Phase	MeCN
Buffer	AmFm pH 3.0
Flow Rate	1.0 mL/min
Detection	ELSD

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Quelle: https://sielc.com/Application-Retention-of-Taurine-on-Obelisc-N-Column