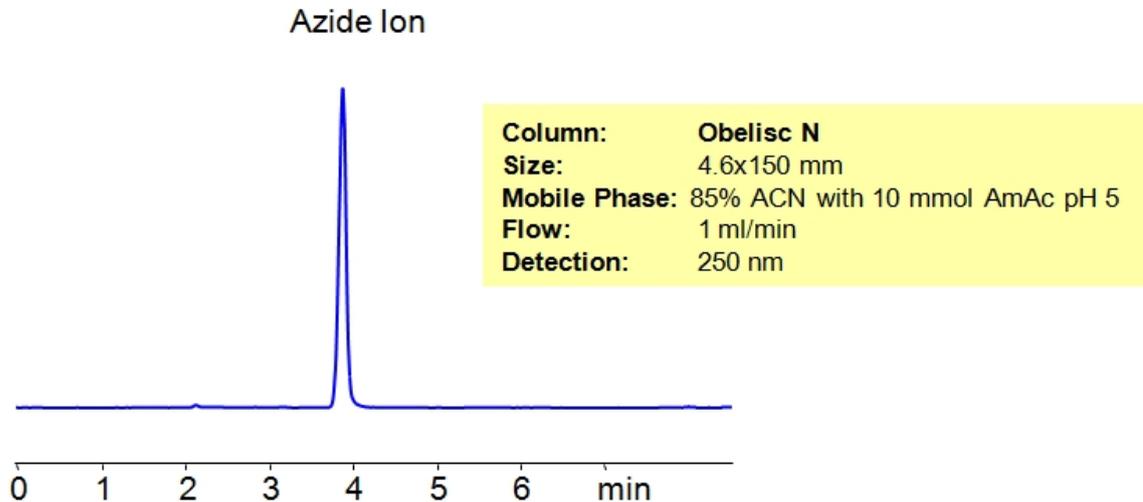


HPLC Analysis of Azide Ion on Obelisc N Column



Sodium azide is used in older car airbag systems and airplane escape slides. It is an acutely toxic substance. Obelisc N mixed-mode column can retain the azide ion using MS-compatible mobile phase of acetonitrile (ACN) and water with Ammonium Acetate as buffer. Can also be UV detected 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 N, 4.6x150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O – 85/15%
Buffer	AmAc pH 5- 10 mM
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: <https://sielc.com/Application-HPLC-Analysis-of-Azide-Ion-on-Obelisc-N-Column>