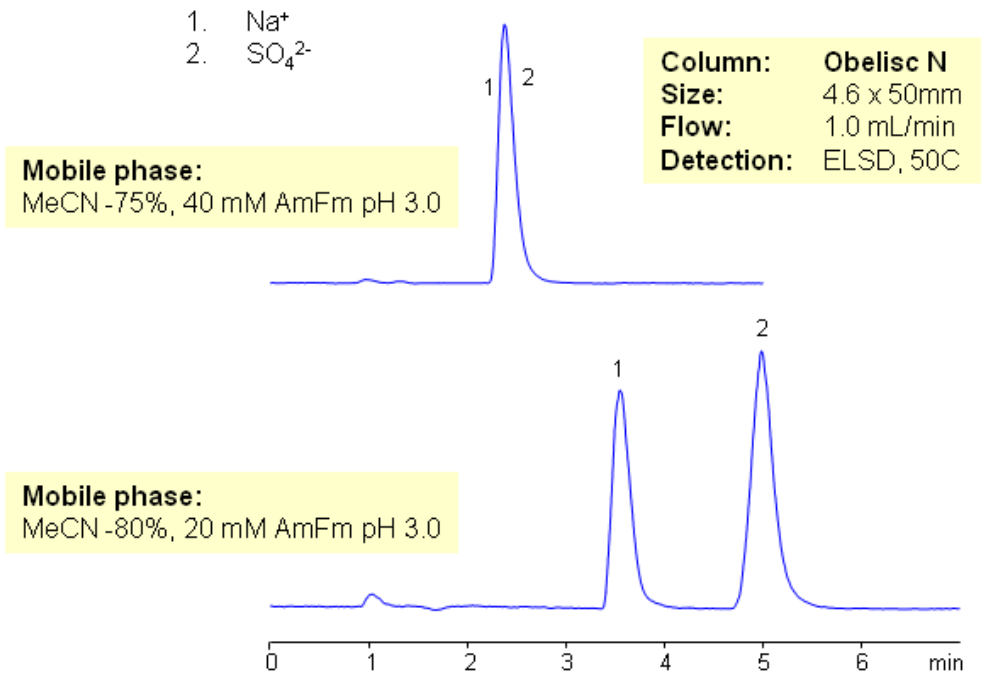
## Simultaneous Determination of Sodium and Sulfate Ions on Obelisc N Mixed-mode HILIC Column




Inorganic cations and anions are usually analyzed by two different methods – cation-exchange and anion-exchange. This requires development and validation of two methods. Both ions can be analyzed on mixed-mode HILIC column with ELSD detection. Both ions are retained by combination of HILIC and ion-exchange mechanism.

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

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|---|---|
| **Column** | Obelisc N, 4.6×50 mm, 5 µm, 100 Å |
| **Mobile Phase** | MeCN/H2O |
| **Buffer** | AmFm, pH 3.0 |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | ELSD |

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