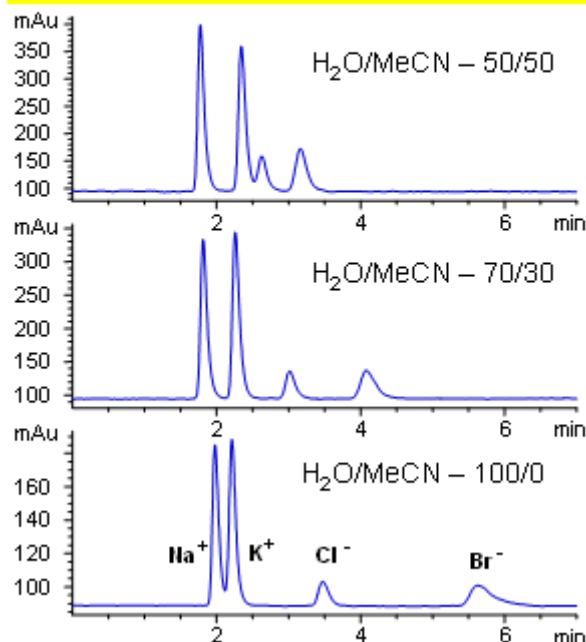


# Effect of Concentration of Organic Modifier on Retention of Cation and Anions

<https://sielc.com/Application-Effect-of-Concentration-of-Organic-Modifier-on-Retention-of-Cation-and-Anions>

## Chromatogram

Serial connected Primesep 100, 50 x 4.6 mm & Primesep B, 50 x 4.6 mm Mobile Phase: H<sub>2</sub>O/MeCN with NH<sub>4</sub>Ac 50 mM pH 5.0 Flow rate: 1.0 mL/min Detector: ELSD



## Description

Primesep 100 and Primesep B columns connected in series allow the quantitation of sodium chloride and potassium bromide ions in one injection. The Primesep B column retains the chloride and bromide anions by anion exchange, and the Primesep 100 retains the sodium and potassium cations by cation exchange. The retention can be adjusted by changing the water/acetonitrile ratio in the mobile phase. The separation uses a mobile phase mixture of water, acetonitrile (MeCN, ACN) and ammonium acetate with evaporative light scattering detection (ELSD).

## Method Parameters

Mobile Phase	MeCN/H <sub>2</sub> O
Buffer	AmAc pH 5.0
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Ions, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Sodium, Potassium, Bromide, Chloride

## HPLC Column Used

Primesep 100, Primesep B , 4.6x50 mm, 5 µm, 100A