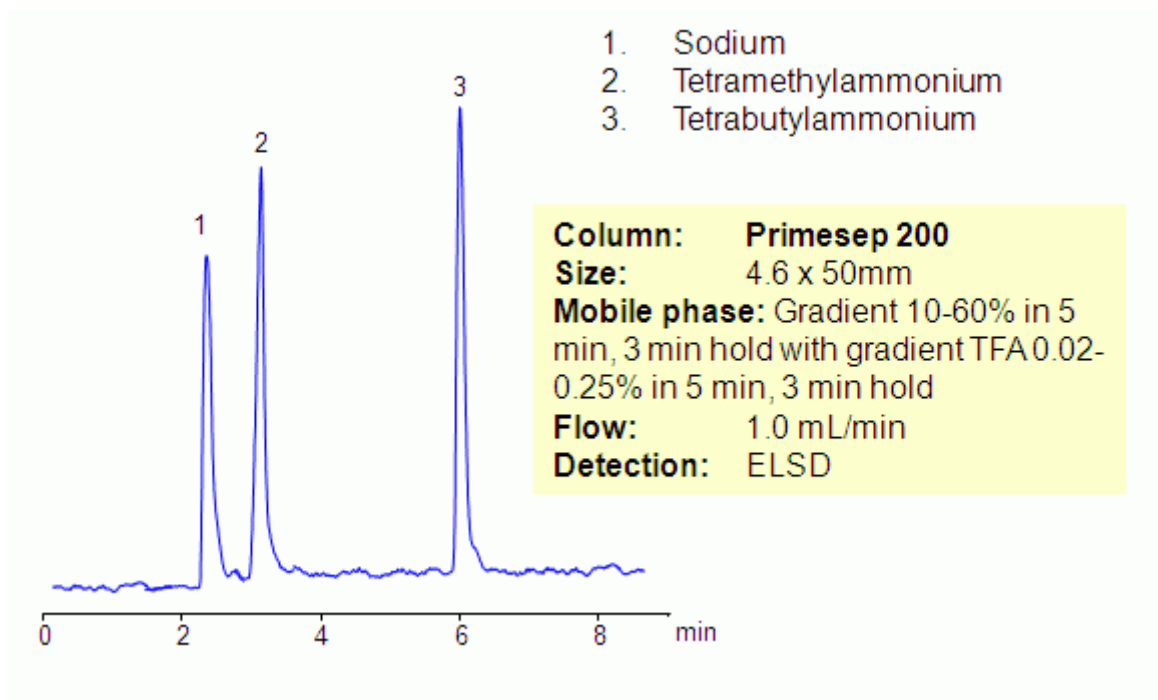


# Separation of Sodium, Tetramethylammonium and Tetrabutylammonium on Primesep 200 Column

<https://sielc.com/Application-Separation-of-Sodium-Tetramethylammonium-and-Tetrabutylammonium-on-Primesep-200-Column>

## Chromatogram



chr\_300.gif

## Description

Hydrophilic and hydrophobic quaternary amines, along with sodium ion, were separated by mixed-mode chromatography on a Primesep 200 column. Mechanism of retention for sodium and tetramethylammonium ions is cation exchange, while the tetrabutylammonium ion is retained by combination of reversed-phase and cation-exchange mechanisms. All three compounds are not UV-active and monitoring is done by ELSD/CAD.

## Method Parameters

<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O
<b>Buffer</b>	AmAc pH4.0
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	ELSD
<b>Class of Compounds</b>	Ions, Hydrophilic, Ionizable, Quaternary amines
<b>Analyzing Compounds</b>	Sodium, Chloride, Tetramethylammonium, Tetrabutylammonium

## HPLC Column Used

**Primesep 200, 4.6×100 mm, 5 μm, 100A**

[Order this column at hplc-shop.de →](#)