HPLC Separation of Sodium, Potassium Ions and Tetramethylammonium Chloride on Newcrom AH Column

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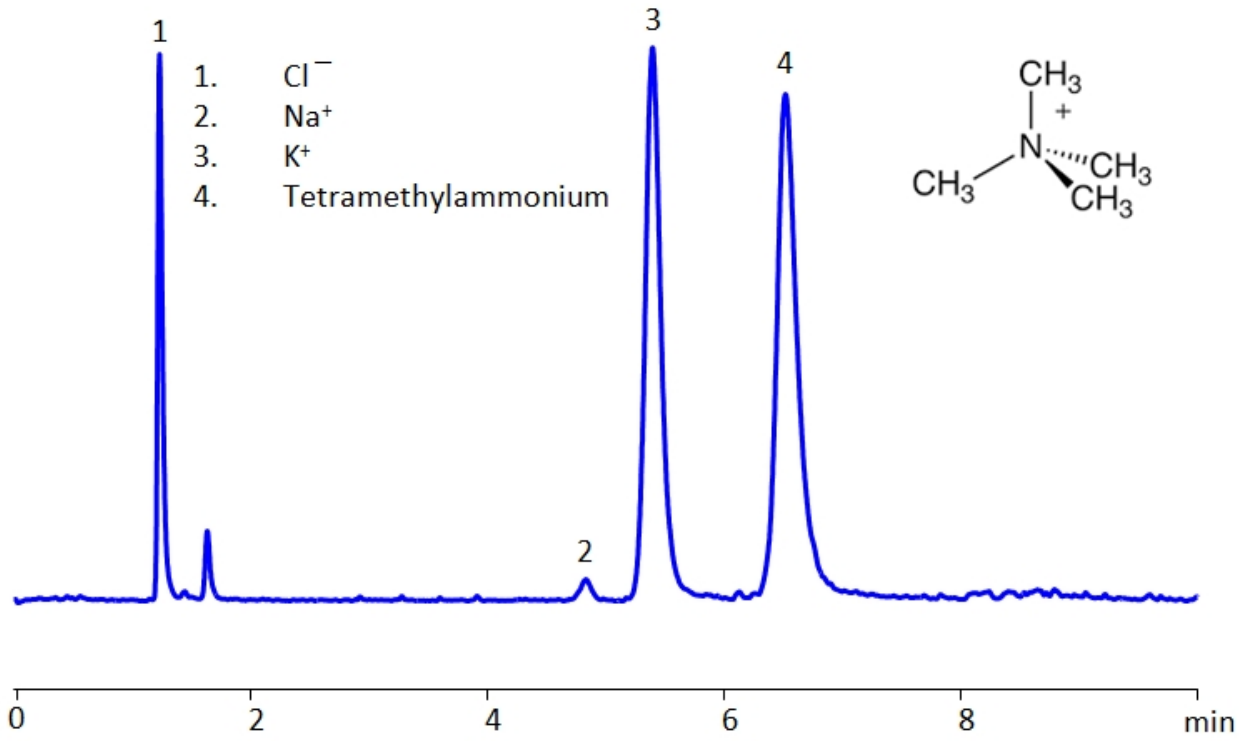
Chromatogram



Column:	Newcrom AH
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H2O – 50/50%
Buffer:	AmFm pH 3.0 - 10 mM
Detection:	CAD
Flow rate:	1.0 mL/min

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Tetramethylammonium , Sodium , Potassium .

Tetramethylammonium chloride is a quaternary ammonium salt used widely as a reagent in industrial applications. It can be separated from sodium and potassium chlorides on a mixed-mode Newcrom AH column with a simple isocratic MS-compatible mobile phase of water, acetonitrile (ACN) and ammonium formate (AmFm) buffer.

Method Parameters

Mobile Phase	MeCN/H2O – 50/50%
Buffer	AmFm pH 3.0- 10 mM
Flow Rate	1.0 ml/min
Detection	CAD (Corona) MS- compatible mobile phase

Class of Compounds	Hydrophilic, Metal, Ion, Quaternary ammonium salt
Analyzing Compounds	Tetramethylammonium,Sodium,Potassium

HPLC Column Used

Newcrom AH, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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