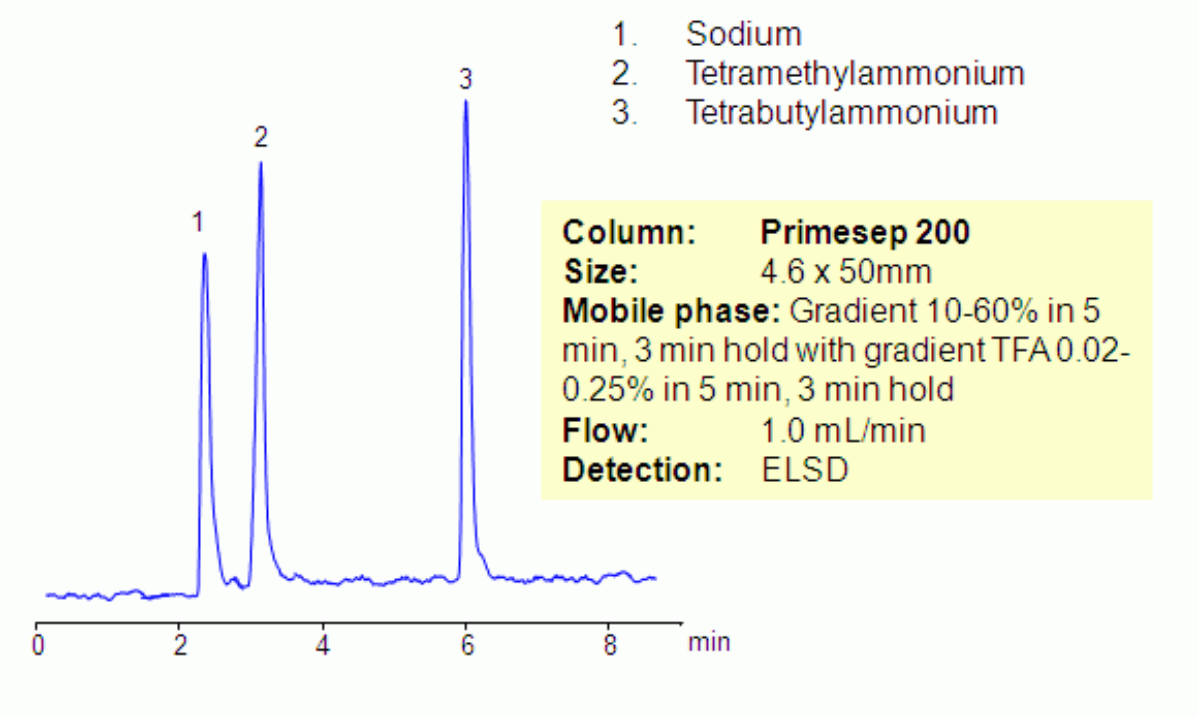
Separation of Sodium, Tetramethylammonium and Tetrabutylammonium on Primesep 200 Column



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

Column	Primesep 200, 4.6×100 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	AmAc pH4.0
Flow Rate	1.0 mL/min
Detection	ELSD

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