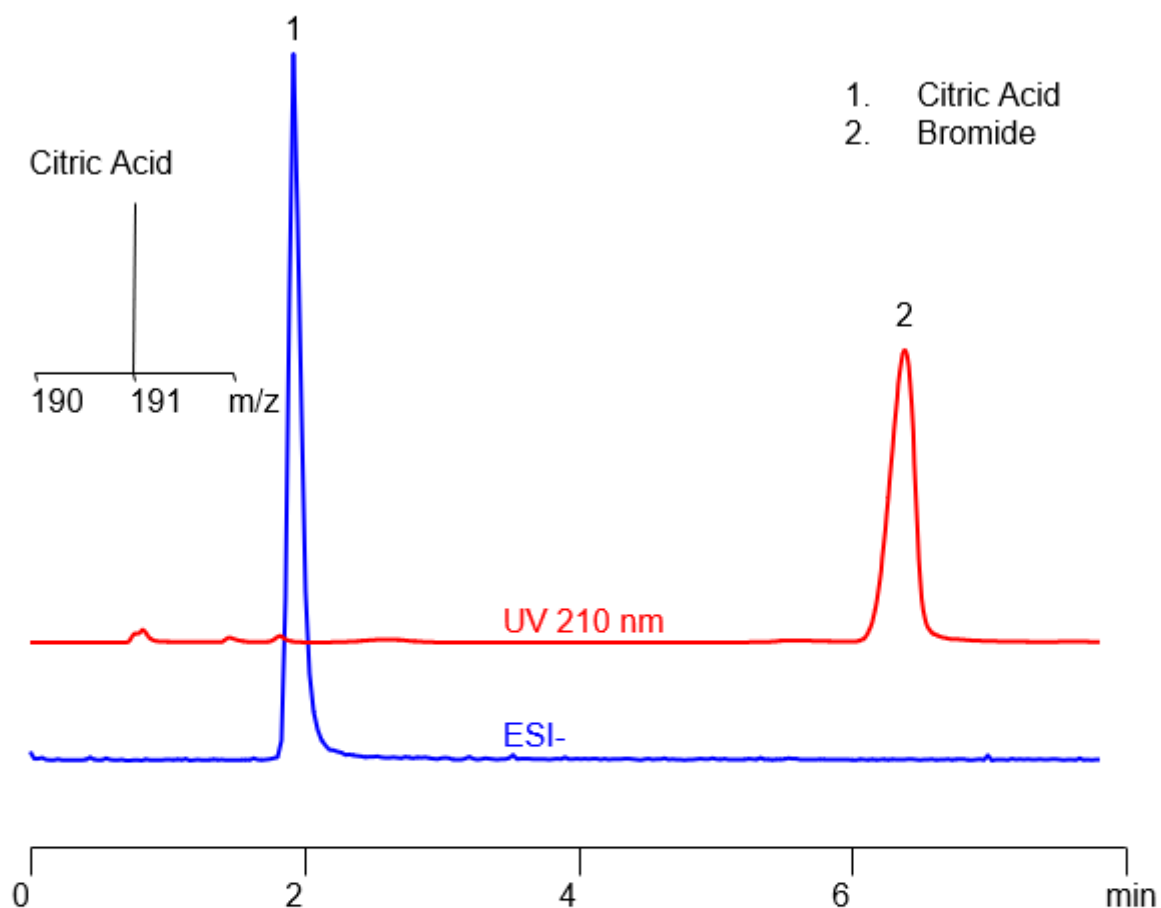


HPLC Method for Analysis of Citric Acid and Potassium Bromide on Newcrom BH Column

<https://sielc.com/hplc-method-for-analysis-of-citric-acid-and-potassium-bromide>

Chromatogram



Column:	Newcrom BH
Column size:	3.2x100 mm, 3 μ m, 100A
Column part number:	NBH-32.100.0310
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	TFA – 0.1%
Flow rate:	0.5 mL/min
Detection:	UV 210 nm and ESI-

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Citric Acid and Potassium Bromide

Citric Acid is a naturally occurring organic acid found in citrus fruits; it is also an intermediate in the citric acid cycle of aerobic organisms. It is used industrially as an acidity regulator, flavoring, detergent, and more than 2 million tons are produced annually. It's chemical formula is C(=O)OCC(O)(O)C(=O)O. You can find detailed UV spectra of Citric Acid and information about its various lambda

maxima by visiting the following link.

Potassium Bromide used to be a popular anticonvulsant and sedative with the chemical formula KBr . Now, it is mainly used as an antiepileptic medication for dogs. Sodium bromide tastes salty in any concentration, but the potassium ion gives a variety of tastes depending on the concentration. At lower concentration, it is sweet, but turns bitter at higher concentrations. If ingested as high concentration, it can cause strong irritation to the gastric mucous membrane and lead to vomiting. You can find detailed UV spectra of Citric Acid , Bromide and information about its various lambda maxima by visiting the following link.

Citric Acid , Bromide can be retained, separated, and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and Trifluoroacetic acid (TFA). This analytical method can be UV detected at 210 nm with high resolution and peak symmetry. This method is also compatible with Mass Spectrometry (MS), ELSD, and CAD. The Citric acid was detected via negative Electrospray Ionization (ESI-) at an m/z of 191.

Method Parameters

Mobile Phase	MeCN – 10%
Buffer	TFA – 0.1%
Flow Rate	0.5 ml/min
Detection	UV 210 nm, ESI
Class of Compounds	Acid
Analyzing Compounds	Citric Acid,Bromide

HPLC Column Used

Newcrom BH, 3.2 x 100 mm, 3 µm, 100 A, dual ended

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