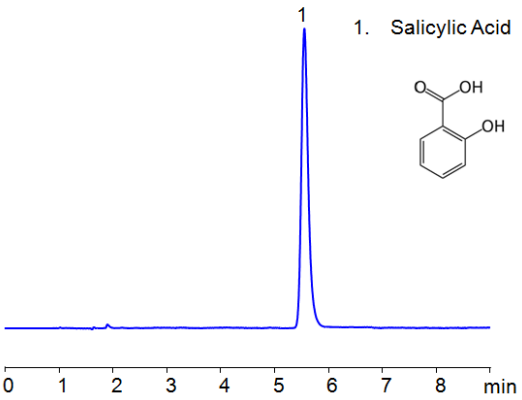
HPLC Method For Analysis Of Salicylic Acid on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 5 µm
Column part number:	NBH-46.150.0510
Mobile phase:	MeCN/H_2O – 40/60%
Buffer:	H_3PO_4 – 0.5 %
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

Separation type: Liquid Chromatography Mixed-mode

Salicylic acid (SA) is an o-hydroxybenzoic acid, synthesized by both plants and microorganisms. SA acts as a critical plant hormone regulating various processes, including growth and development, flowering, thermogenesis, ion uptake, stomatal movement, photosynthesis, and plant immunity. SA also has medical applications as a topical treatment for a wide variety of skin conditions, including warts, dandruff, and acne. Using a Newcrom BH mixed-mode column and a mobile phase consisting of water, Acetonitrile (MeCN), and a Phosphoric acid (H3PO4) buffer, Salicylic acid can be retained, measured, and analyzed. This analysis method can be UV detected at 200 nm with high resolution with high resolution and peak symmetry.

High Performance Liquid Chromatography (HPLC) Method for Analysis of Salicylyc Acid

The Newcrom columns are a family of reverse-phase-based columns. Newcrom A , AH , B , and BH are all mixed-mode columns with either positive or negative ion-pairing groups attached to either short (25 Å) or long (100 Å) ligand chains. Newcrom R1 is a special reverse-phase column with low silanol activity.

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Method Parameters

Column	Newcrom BH, 4.6×150 mm, 100 Å
Mobile Phase	MeCN – 40%
Buffer	H3PO4 – 0.5%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-salicylic-acid