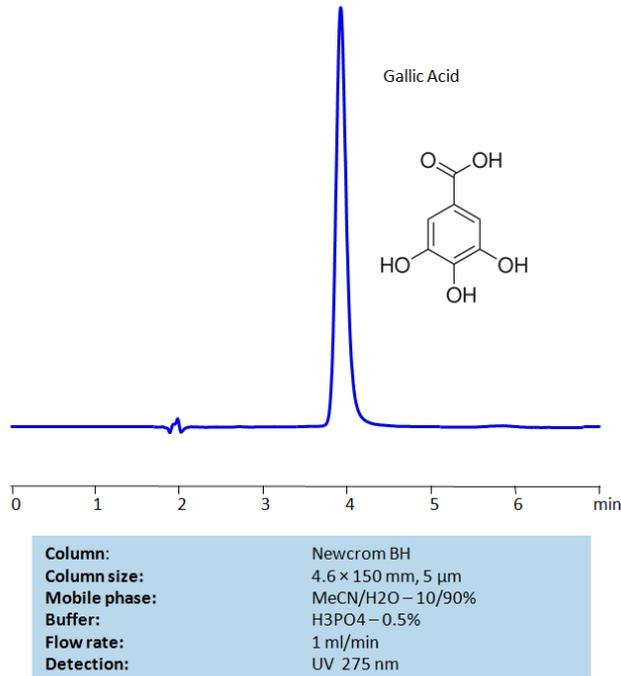


HPLC Method for Analysis of Gallic Acid on Newcrom BH



High Performance Liquid Chromatography (HPLC) Method for Analysis of Gallic acid .

Gallic acid is a naturally occurring polyphenol compound present in fruits, vegetables, and herbals with the chemical formula C₇H₆O₅ . Gallic acid has many biological properties, including antioxidant, anticancer, anti-inflammatory, and antimicrobial properties. It was a key ingredient in European iron gall ink from its first discovery in the 12th century until the 19th century. In modern times, it's heavy metal salt, Bismuth subgallate, known by its trade name Devrom, is known for its effects at deodorizing flatulence and stools.

Using Newcrom BH mixed-mode column and a mobile phase consisting of acetonitrile (ACN), and water with phosphoric acid (H₃PO₄) buffer, Gallic acid can be retained and UV detected at 275 nm.

Method Parameters

Column	Newcrom BH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₃ PO ₄ – 0.5%
Flow Rate	1.0 mL/min
Detection	275 nm

Quelle: <https://sielc.com/hplc-determination-of-gallic-on-newcrom-bh>