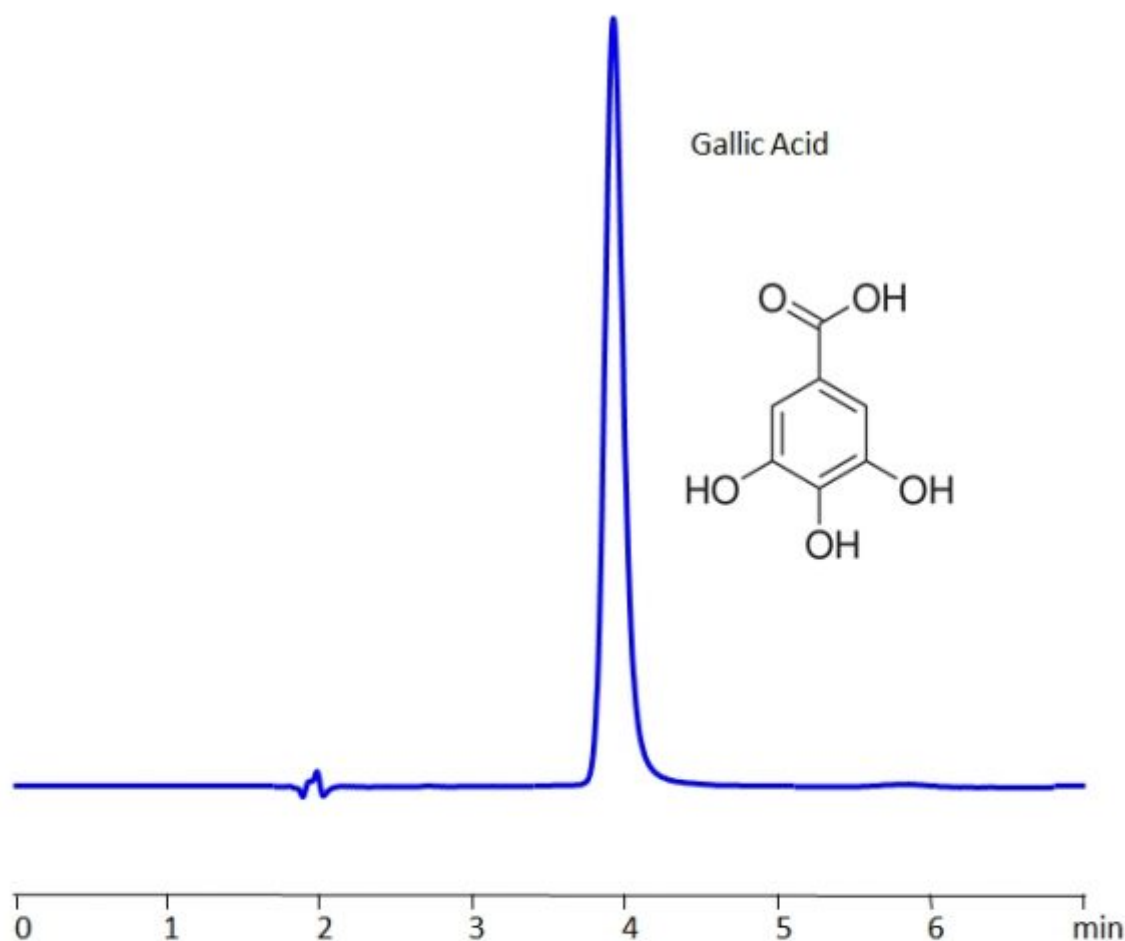


HPLC Method for Analysis of Gallic Acid on Newcrom BH

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

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	H ₃ PO ₄ – 0.5%
Flow rate:	1 ml/min
Detection:	UV 275 nm

Description

· 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, its 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 275nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₃ PO ₄ – 0.5%
Flow Rate	1.0 ml/min
Detection	275 nm
Class of Compounds	Acid
Analyzing Compounds	Gallic acid

HPLC Column Used

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

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)