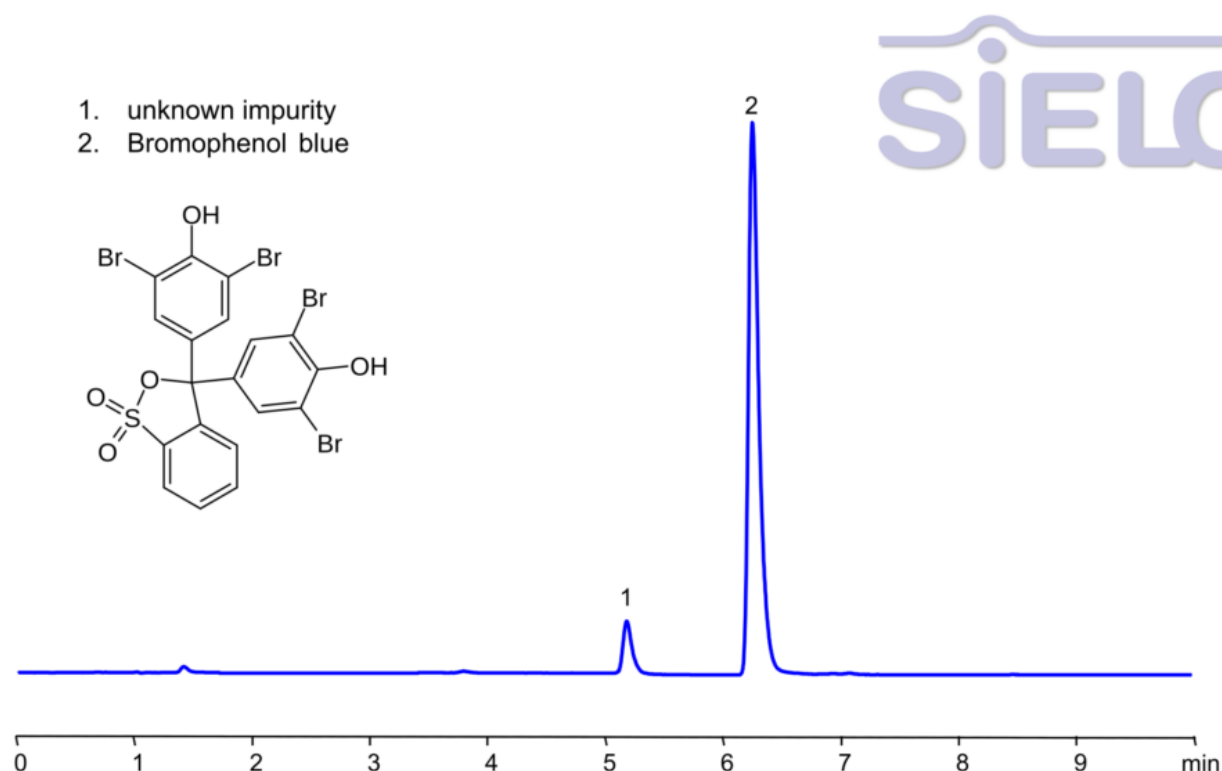


HPLC Method for Analysis of Bromophenol blue on Newcrom R1 Column

<https://sielc.com/hplc-method-for-analysis-bromophenol-blue>

Chromatogram



Column:	Newcrom R1
Column size:	3.2× 100 mm, 5 µm
Column part number:	NR1-32.100.0510
Mobile phase:	Gradient MeCN 30 - 70%, 10 min
Buffer:	H ₂ SO ₄ – 0.2 %
Flow rate	0.5 mL/min
Detection:	VIS 424 nm
Concentration:	0.05 mg/mL
Injection Volume:	1 µL
Diluent:	MeCN/H ₂ O - 50/50%
Limit of Detection:	2 ppb

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Bromophenol blue

Bromophenol blue (BPB) is a pH indicator and dye commonly used in laboratories, especially in gel electrophoresis and titrations.

pH Indicator Properties Color Changes: Below pH 3.0: Yellow Between pH 3.0 and 4.6: Greenish Above pH 4.6: Blue

Bromophenol blue can be retained and analyzed using the Newcrom R1 column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid as a buffer. Detection is carried out using UV.

You can find detailed UV spectra of Bromophenol blue and information about its various lambda maxima by visiting the following link .

Method Parameters

Mobile Phase*	Gradient MeCN – 30-70%, 10 min
Buffer	H2SO4 – 0.2%
Flow Rate	0.5 ml/min
Detection	VIS 420, (λ_{max} -200, 280, 424nm)
LOD**	2 ppb
Class of Compounds	Dye
Analyzing Compounds	Bromophenol blue

HPLC Column Used

Newcrom R1, 3.2 x 100 mm, 5 μ m, 100 A, dual ended

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