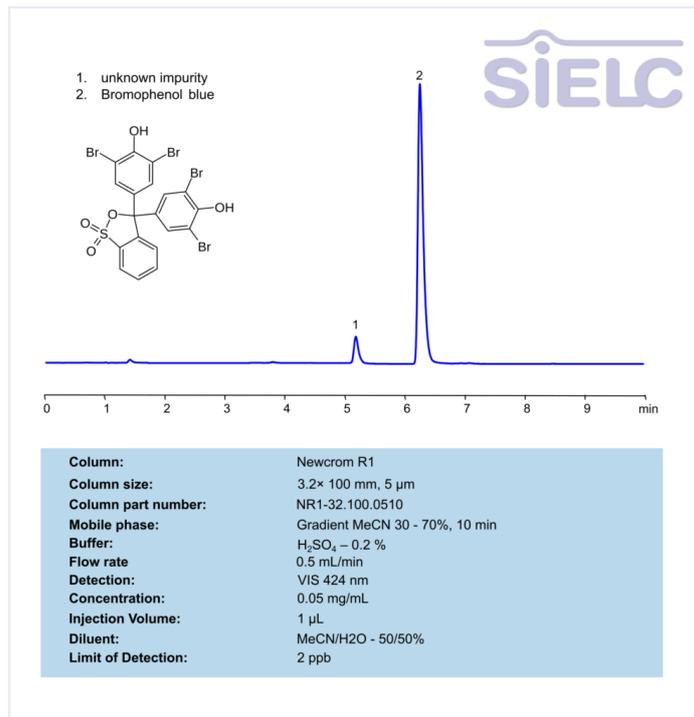


HPLC Method for Analysis of Bromophenol blue on Newcrom R1 Column



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 .

*To make the mobile phase

**LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	0.5 mL/min
Detection	VIS420, (λ _{max} -200, 280, 424 nm)

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