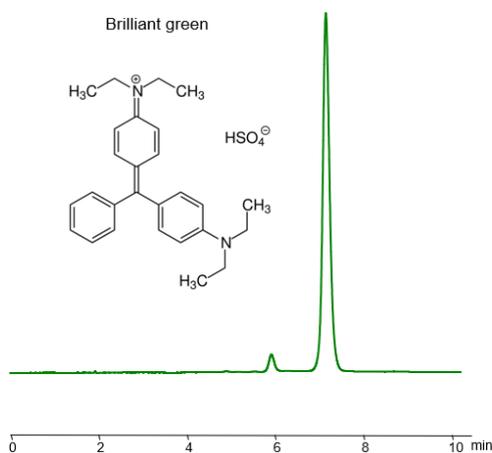


HPLC Method for Analysis of Brilliant Green on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 80/20%
Buffer:	H ₂ SO ₄ - 0.2%
Flow rate:	1.0 mL/min
Detection:	Vis 600 nm

Brilliant green, also known as zelyonka and zelenka, is a triarylmethane dye with the chemical formula C₂₇H₃₃N₂·HO₄S. A dilute alcoholic solution of Brilliant Green is used as a topical antiseptic. At lower solutions, it can also be used for mucous membranes and for infants. It is a visible light-activated photocatalyst in organic synthesis.

Brilliant Green can be retained and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple isocratic mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid (H₂SO₄) buffer. This analysis method can be UV detected at 600 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 80/20%
Buffer	H ₃ PO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV, 600 nm

Quelle: <https://sielc.com/hplc-determination-of-brilliant-green>