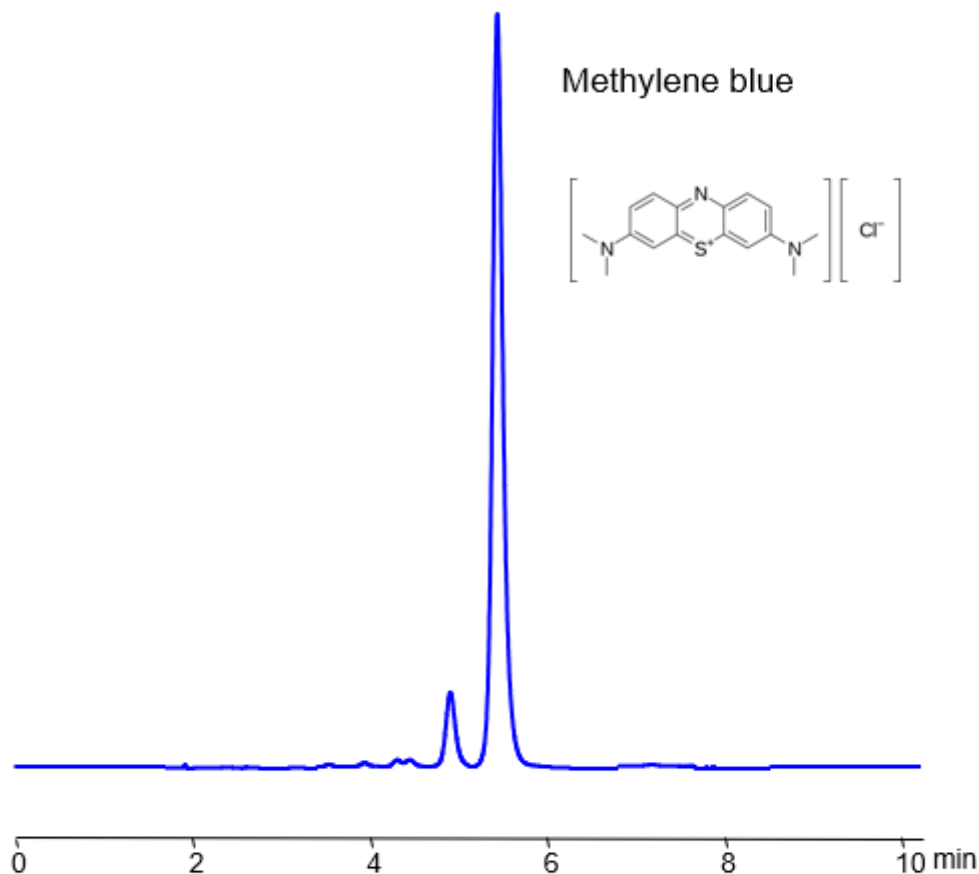


HPLC Method for Analysis of Methylene blue on Primesep 100 Column

<https://sielc.com/hplc-determination-of-methylene-blue>

Chromatogram



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:	UV 600 nm

Description

· HPLC Method for Analysis of Methylene Blue on Primesep 100 Column by SIELC Technologies

Methylene blue is a synthetic dye with the chemical formula C₁₆H₁₈ClN₃S. As a salt, it has medical uses, primarily in treatment of methemoglobinemia. It is also used to treat pain caused by the urinary tract infections and spasms as a combination drug–Methylphen. Commercially, it is often used as a blue dye, though it has a wide variety of other uses including but not limited to sulfide analysis, water testing, and redox indicator. You can find detailed UV spectra of Methylene Blue and information about its various lambda maxima by visiting the following link.

Methylene Blue 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

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
Peak Retention Time	5.92 min
Class of Compounds	Dyes
Analyzing Compounds	Methylene Blue

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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