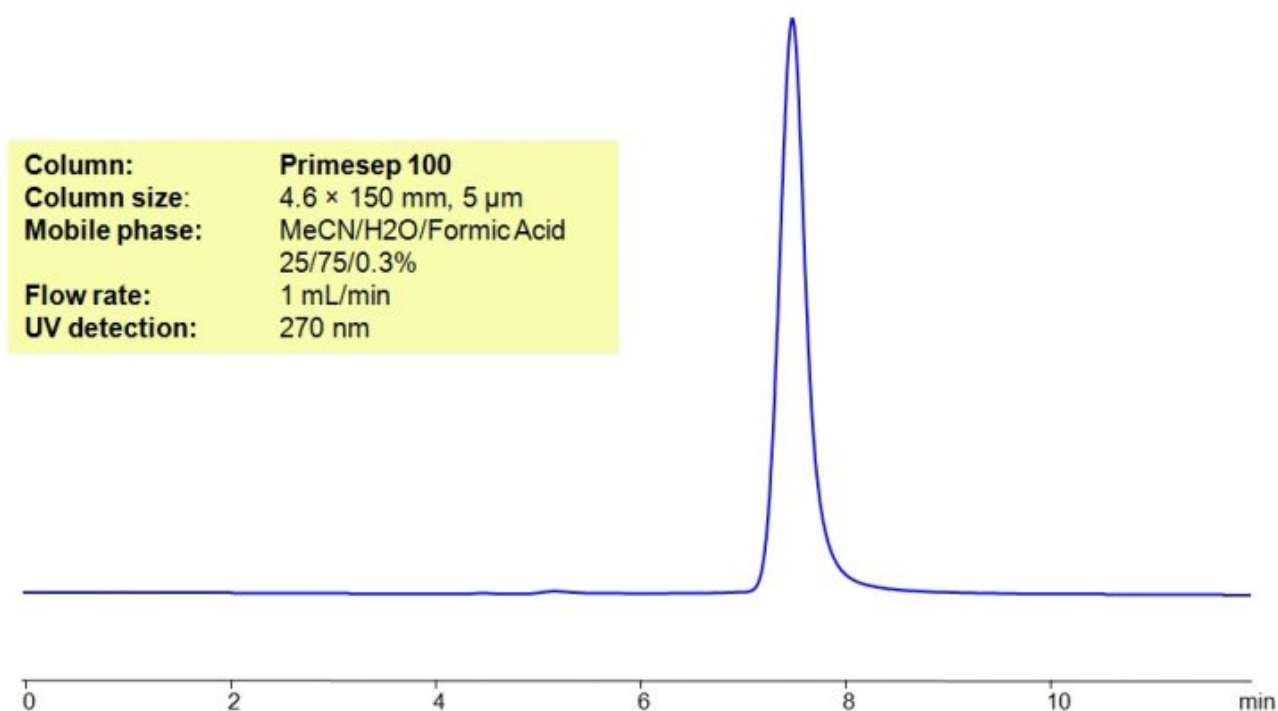


HPLC Method for Analysis of Thymol Blue on Primesep 100 Column

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

Chromatogram



Description

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

Thymol Blue is a sulfonephthalein dye with C₂₇ H₃₀ O₅ S molecular formula. It is typically used as a pH indicator. Despite its name, it is only blue at higher pH levels, turning from blue to yellow when going basic to neutral and from yellow to red when changing from relatively acidic to very acidic. Due to the split in transition stages, it is considered a diprotic acid.

Thymol blue can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a formic acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	Formic Acid – 0.3 %
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Dye, Acid, Hydrophobic
Analyzing Compounds	Thymol blue

HPLC Column Used

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

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