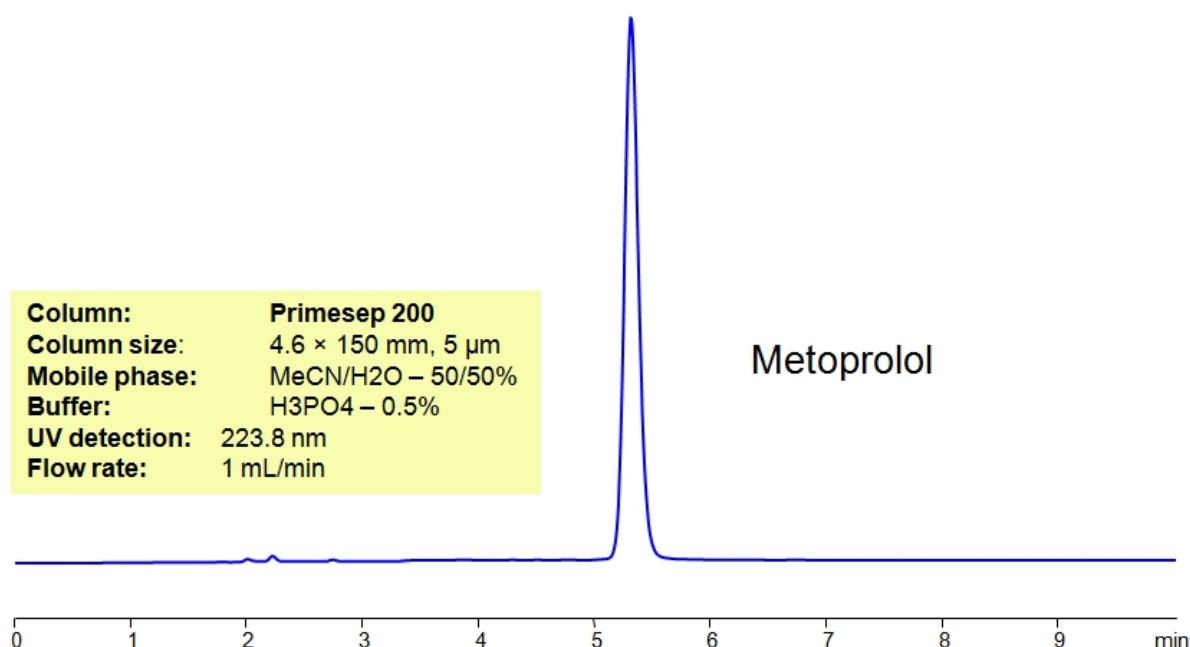


HPLC Method for Analysis of Metoprolol in Tablets on Primesep 200 Column

<https://sielc.com/hplc-method-for-analysis-of-metoprolol-in-tablets>

Chromatogram



Description

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

Metoprolol is a beta-blocker that is used to treat high blood pressure, angina, and heart failure by blocking beta-1 adrenergic receptors. At it's most effective, it can lower the risk of death after a heart attack.

Metoprolol can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a phosphoric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	H ₃ PO ₄ – 0.5 %
Flow Rate	1.0 ml/min
Detection	UV, 223 nm
Class of Compounds	Drug, Beta-blocker, Hydrophobic, Basic

HPLC Column Used

Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended[Order this column at hplc-shop.de →](https://www.hplc-shop.de)