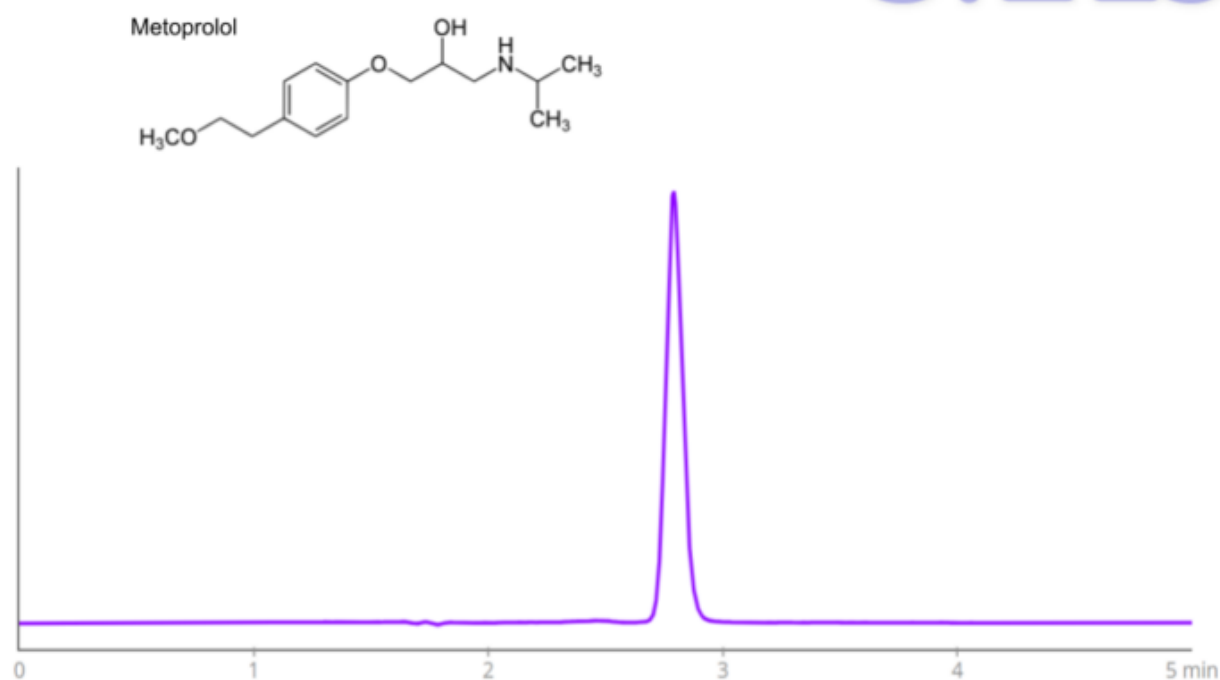


HPLC Method for Analysis of Metoprolol on Primesep 200 Column on Alltesta™

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

Chromatogram

SiELC



Column	Primesep 200
Column Size	4.6 x 150 mm, 5 µm
Part Number	200-46.150.0510
Mobile Phase	MeCN/H ₂ O - 50/50%
Buffer	H ₃ PO ₄ - 0.5%
Flow Rate	1.0 mL/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Metoprolol is a medication with the chemical formula C₁₅ H₂₅ NO₃. It is primarily used to treat angina, high blood pressure, abnormally fast heart rate, and to prevent heart problems after a myocardial infraction. It works through blocking β₁-adrenergic receptors, which increase heartrate.

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 phosphoric acid as a buffer. Detection is

performed using UV.

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	Phosphoric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Drug
Analyzing Compounds	Metoprolol

HPLC Column Used

Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at **hplc-shop.de** →](#)