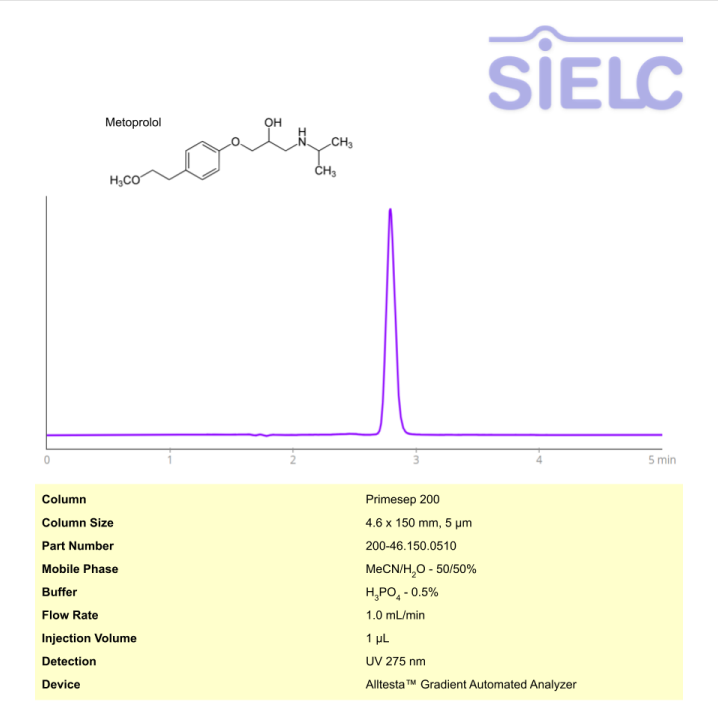
HPLC Method for Analysis of Metoprolol on Primesep 200 Column on Alltesta™



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

Metoprolol is a medication with the chemical formula C15H25NO3 . 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

Column	Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Phosphoric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

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