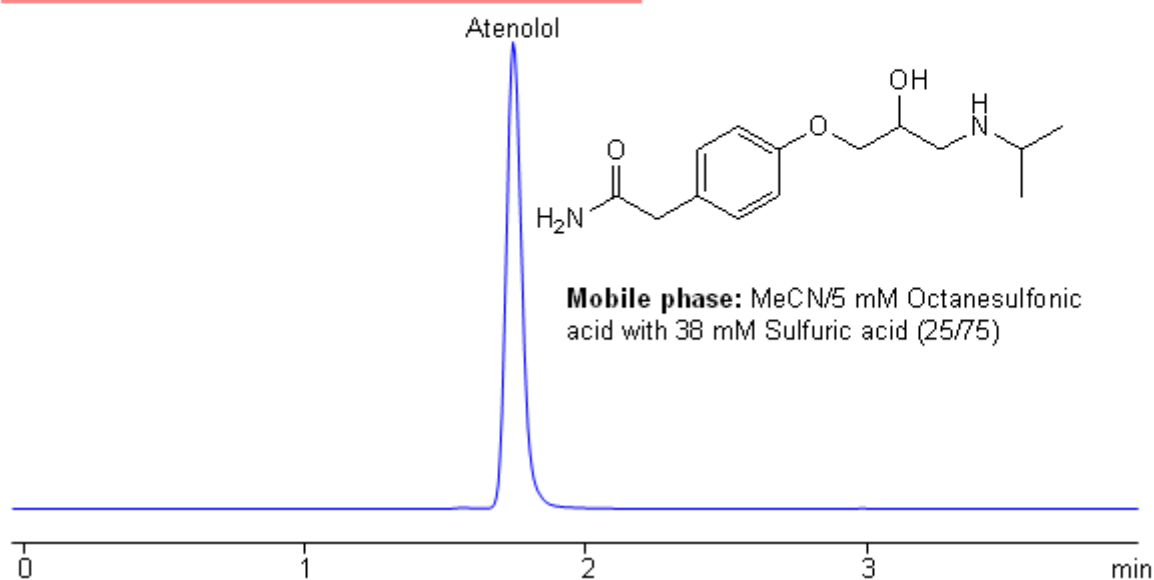


HPLC Separation of Atenolol on Legacy L1 Column

<https://sielc.com/Application-HPLC-Separation-of-Atenolol-on-Legacy-L1-Column>

Chromatogram

Column: Legacy L1
Size: 4.6 x 150 mm
Mobile phase: MeCN/5 mM Octanesulfonic acid with 38 mM Sulfuric acid (25/75)
Flow: 1.0 mL/min
Detection: UV 270 nm



Description

Atenolol is a selective beta receptor antagonist, a drug belonging to beta blockers. The USP method was reproduced on the L1 column. This method can be used for the analysis of atenolol by reversed-phase chromatography on a typical C18 HPLC column. Column and method can be used for other drug substances, intermediates and impurities which need to be analyzed according to the United States Pharmacopeia.

Application Notes: Atenolol is a beta blocker used to treat heart disease as well as thyroid disorders and alcohol withdrawal. The USP HPLC method for the separation of atenolol was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10 µm and pore size of 100-120Å. Resolution between critical pairs corresponds to rules and specifications of UPS.

Method Parameters

Mobile Phase	MeCN
Buffer	Octanesulfonic Acid, Sulfuric Acid
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Beta blocker, Hydrophobic, Ionizable

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A[Order this column at hplc-shop.de →](https://www.hplc-shop.de)