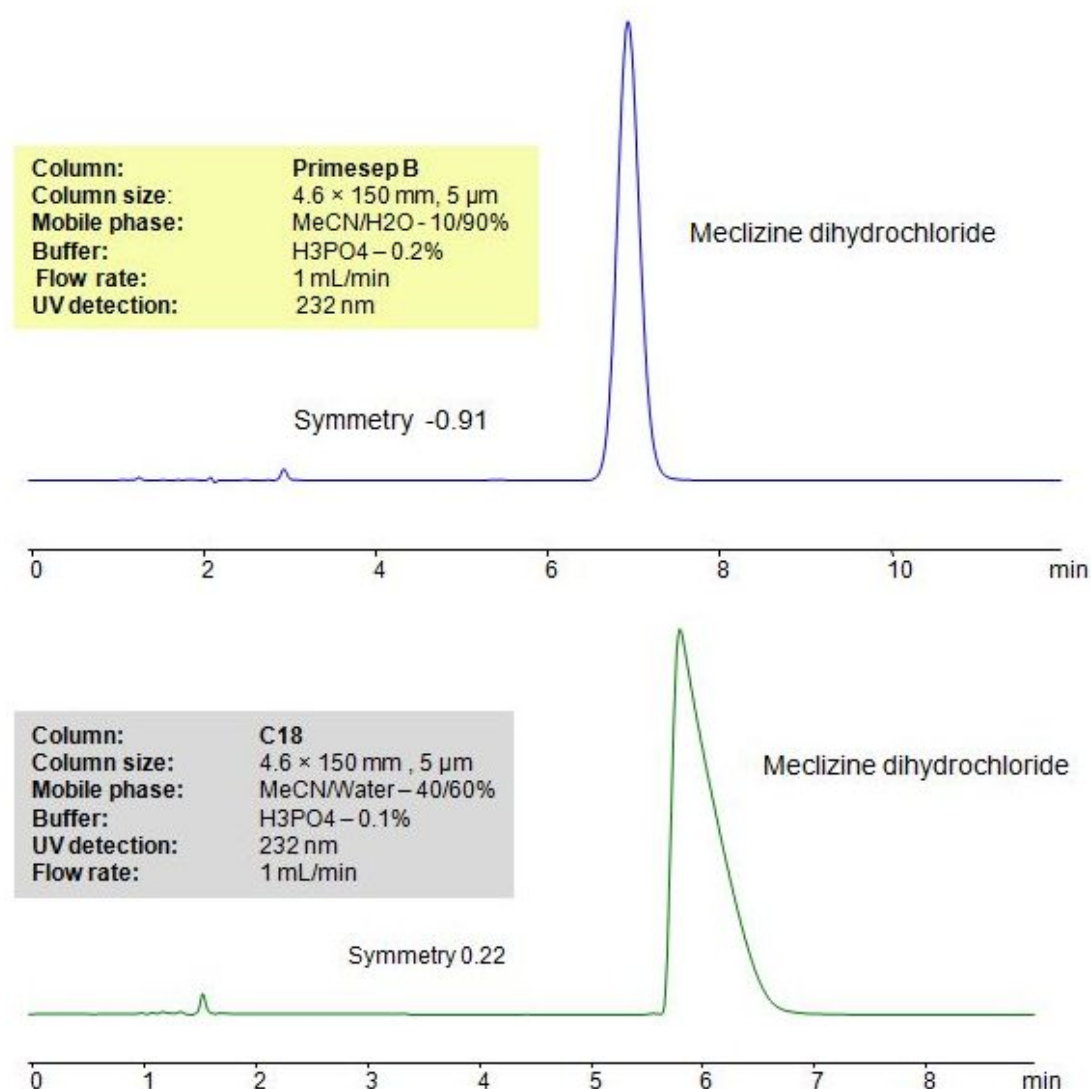


HPLC Method for Analysis of Meclizine on Primesep B Column

<https://sielc.com/hplc-method-for-analysis-of-meclizine-2>

Chromatogram



Description

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

Meclizine is a histamine H₁ antagonist and a synthetic piperazine. It is used to prevent and treat motion sickness, vertigo, and nausea during pregnancy. The side effects that may occur include drowsiness, dry mouth, and tiredness. The method is UV compatible and can be used as a general approach for analyzing similar compounds.

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

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₃ PO ₄ – 0.2 %
Flow Rate	1.0 ml/min
Detection	UV, 232 nm
Class of Compounds	Drug, Antihistamine, Hydrophobic
Analyzing Compounds	Meclizine

HPLC Column Used

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

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