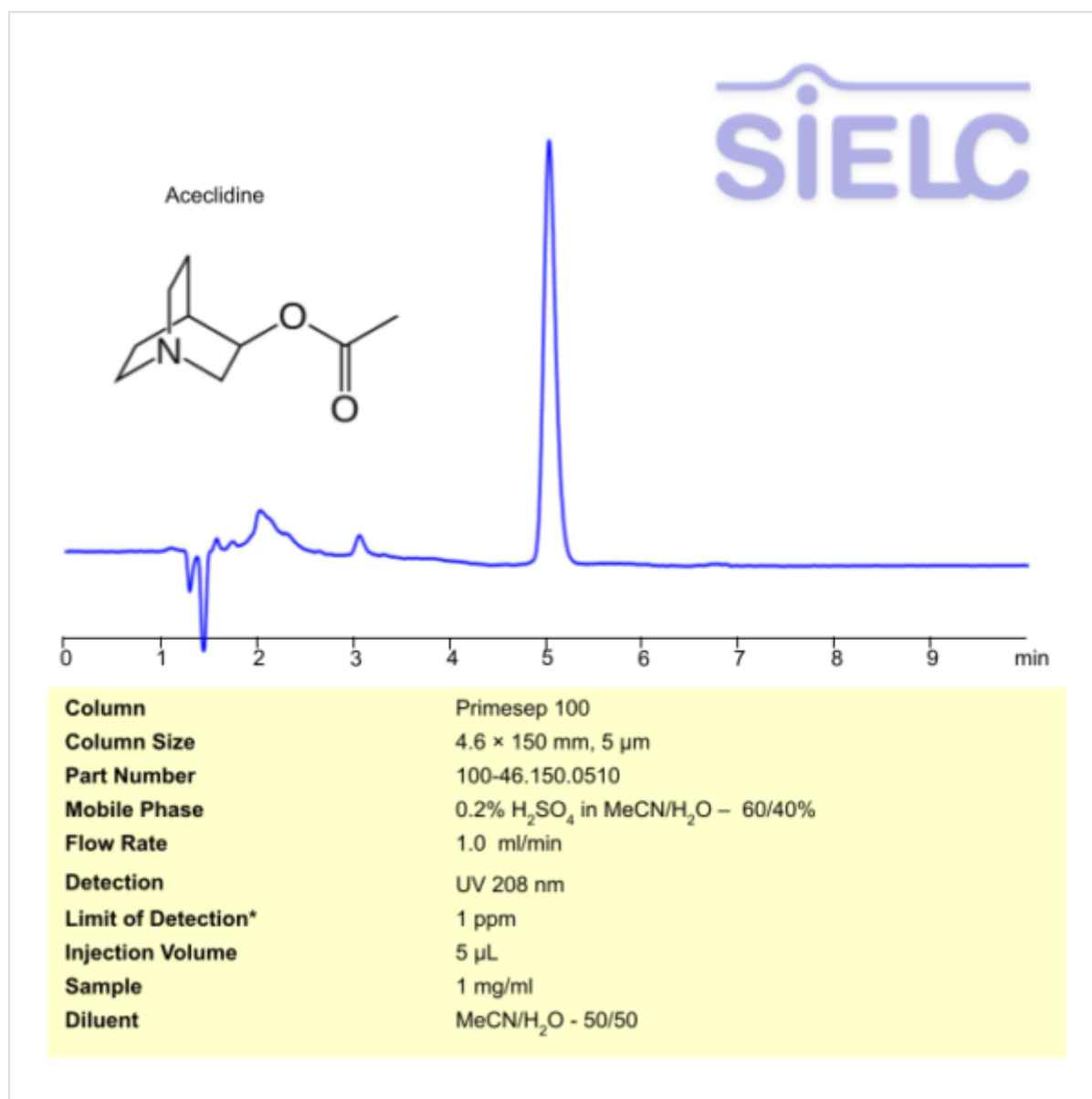


HPLC Method for Analysis of Aceclidine on Primesep 100 Column

<https://sielc.com/hplc-separation-of-aceclidine>

Chromatogram



Description

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

Aceclidine historically unapproved in the United States, received regulatory authorization from the U.S. Food and Drug Administration in July 2025 in the form of an ophthalmic solution (VIZZ, aceclidine 1.44%) for the treatment of presbyopia, marking its transition from an experimental cholinergic agent to a clinically utilized therapeutic.

Drug class: Muscarinic cholinergic agonist

Mechanism of action: Stimulates muscarinic receptors, leading to smooth muscle contraction and glandular secretion.

Historical use: Studied for glaucoma, gastrointestinal motility, and other parasympathetic-related effects

You can find detailed UV spectra of Aceclidine and information about its various lambda maxima by visiting the following link.

Aceclidine can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid as a buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 60/40 %
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 208 nm
Class of Compounds	Drug
Analyzing Compounds	Aceclidine

HPLC Column Used

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

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