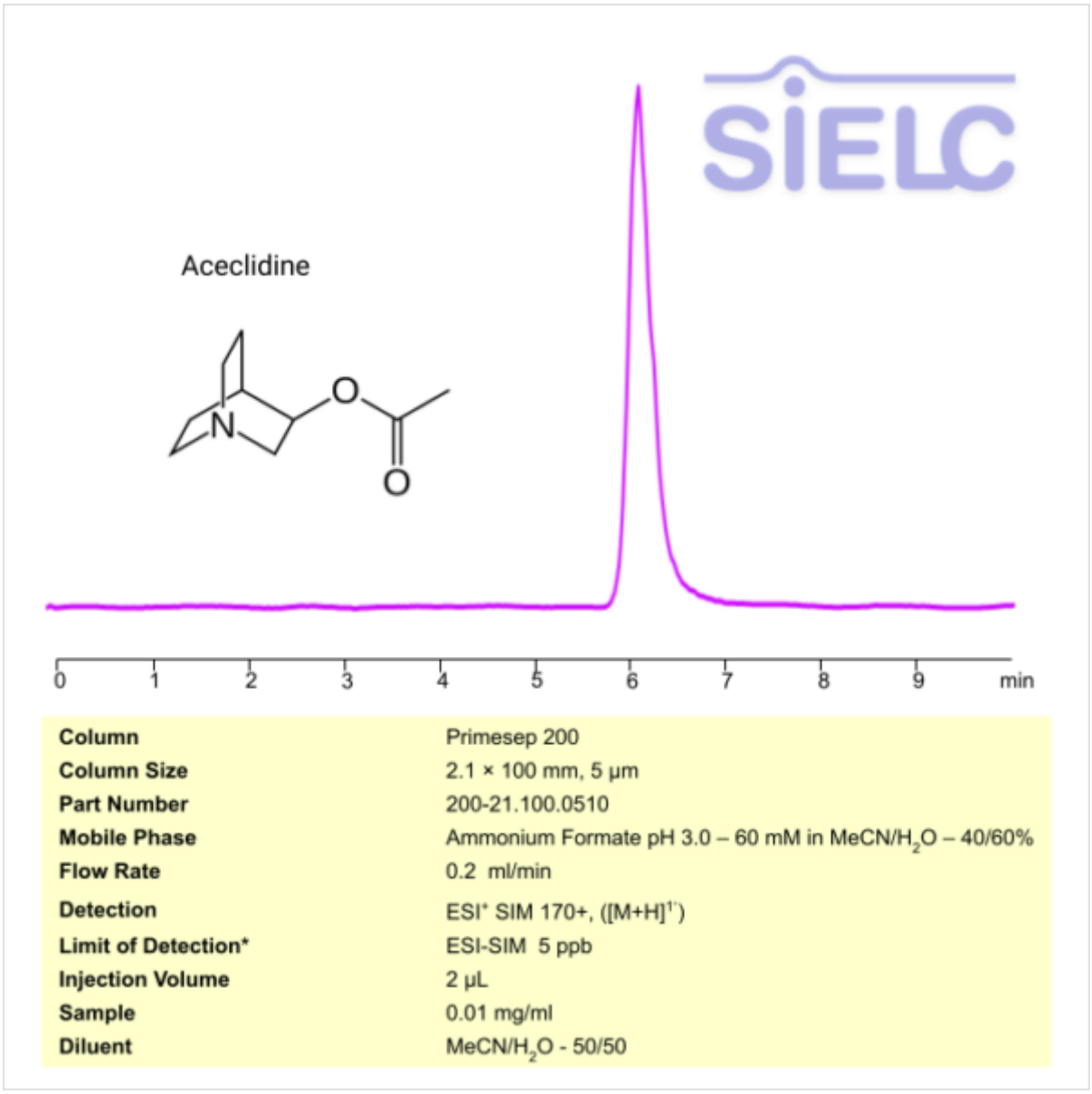
LC MS-HPLC Method for Analysis of Aceclidine on Primesep 200 Column

https://sielc.com/lc-ms-hplc-separation-of-aceclidine

Chromatogram



Column	Primesep 200
Column Size	2.1 × 100 mm, 5 µm
Part Number	200-21.100.0510
Mobile Phase	Ammonium Formate pH 3.0 – 60 mM in MeCN/H_2O – 40/60%
Flow Rate	0.2 ml/min
Detection	ESI$^+$ SIM 170+, ($[M+H]^{1+}$)
Limit of Detection*	ESI-SIM 5 ppb
Injection Volume	2 µL
Sample	0.01 mg/ml
Diluent	MeCN/H_2O - 50/50

Description

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

2025 FDA Approval:

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 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Ammonium format as a buffer. Detection is performed using ESI+ SIM.

Method Parameters

Mobile Phase	MeCN/H2O – 40/60 %
Buffer	AmFm pH 3.0 – 60 mM
Flow Rate	0.2 ml/min
Detection	ESI+SIM 170+, ([M+H]1■)
Class of Compounds	Drug
Analyzing Compounds	Aceclidine

HPLC Column Used

Primesep 200, 2.1 x 150 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →