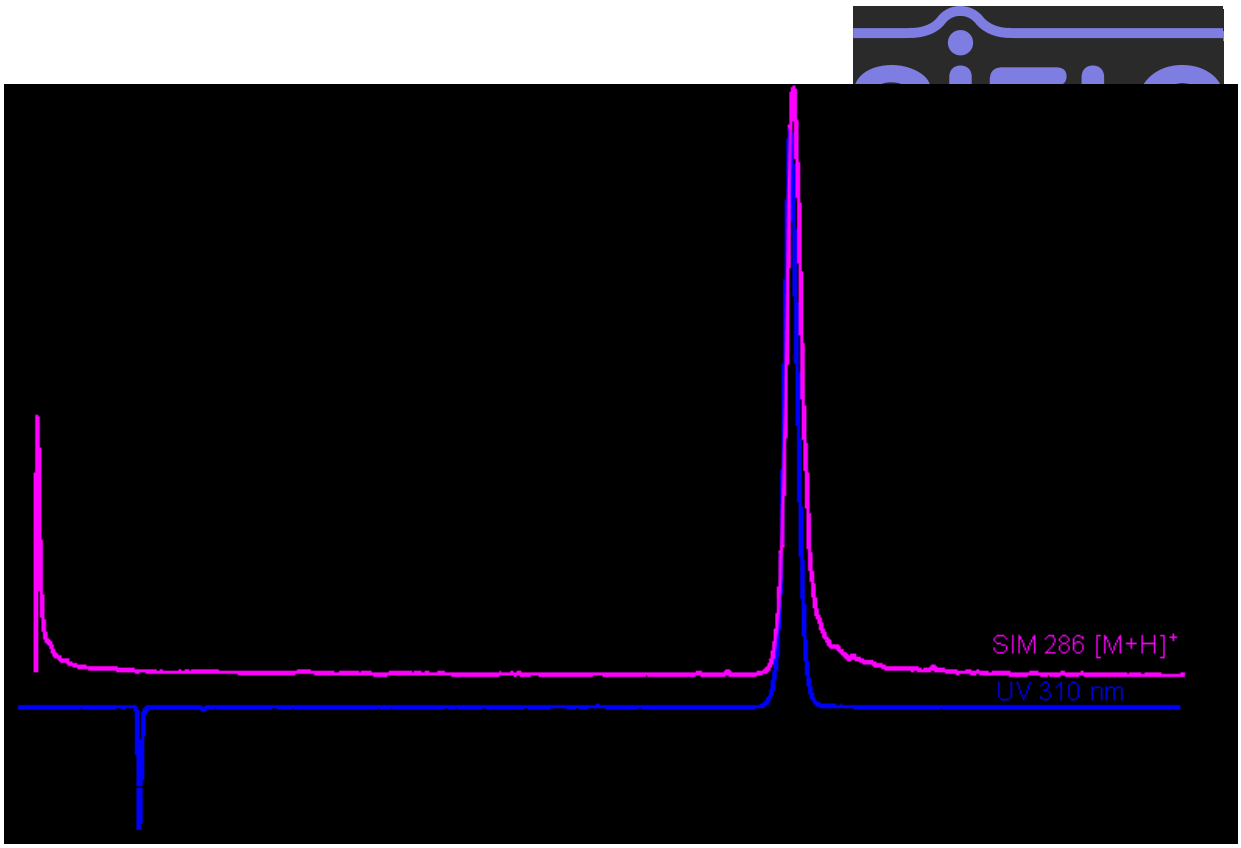
HPLC Method for Analysis of Pyrilamine on Newcrom AH Column

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

Chromatogram



Column	Newcrom AH
Column Size	4.6 x 150 mm, 3µm, 100A
Part Number	NAH-46.150.0310
Mobile Phase	MeCN/H_2O - 50/50%
Buffer	Ammonium Formate pH 3.0 40 mM
Flow Rate	1.0 mL/min
Sample	0.1 mg/ml in H_2O
Sample	10 µL
Detection	UV 310nm / LC MS ESI SIM 286 $[M+H]^+$
LOD UV 310*	0.5 ppm
LOD LC MS ESI SIM 286*	5 ppb

Description

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

Pyrilamine , also known as mepyramine , is a first-generation antihistamine with the molecular formula C 17 H 23 N 3 O. It works through targeting the H1 receptor and blocking effects of histamines. It can relieve allergy symptoms like sneezing, runny nose, and itchy, watery eyes. Due to it's ability to cross the blood-brain carrier, it might have a strong drowsiness side-effect after ingestion. When used topically, it is used to treat skin reactions to bug bites, stings, nettles rashes, and more.

Pyrilamine can be retained and analyzed using the Newcrom AH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV 310nm and LC MS ESI SIM 286.

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

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	Ammonium Formate pH 3.0
Flow Rate	1.0 ml/min
Detection	UV 222 / LC MS ESI SIM 286 [M+H]+
LOD*UV	35 ppb
LOD* LC MS ESI SIM	0.5 ppm
Class of Compounds	Antihistamine
Analyzing Compounds	Pyrilamine

HPLC Column Used

Newcrom AH, 4.6 x 150 mm, 3 µm, 100 A, dual ended

Order this column at hplc-shop.de →