HPLC Method for Analysis of Pyrilamine on Newcrom AH Column

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

Pyrilamine , also known as mepyramine , is a first-generation antihistamine with the molecular formula C17H23N3O. 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 310 nm and LCMSESISIM286.

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

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Ammonium Formate pH 3.0
Flow Rate	1.0 mL/min
Detection	UV 222 / LCMSESISIM286 [M+H] +

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