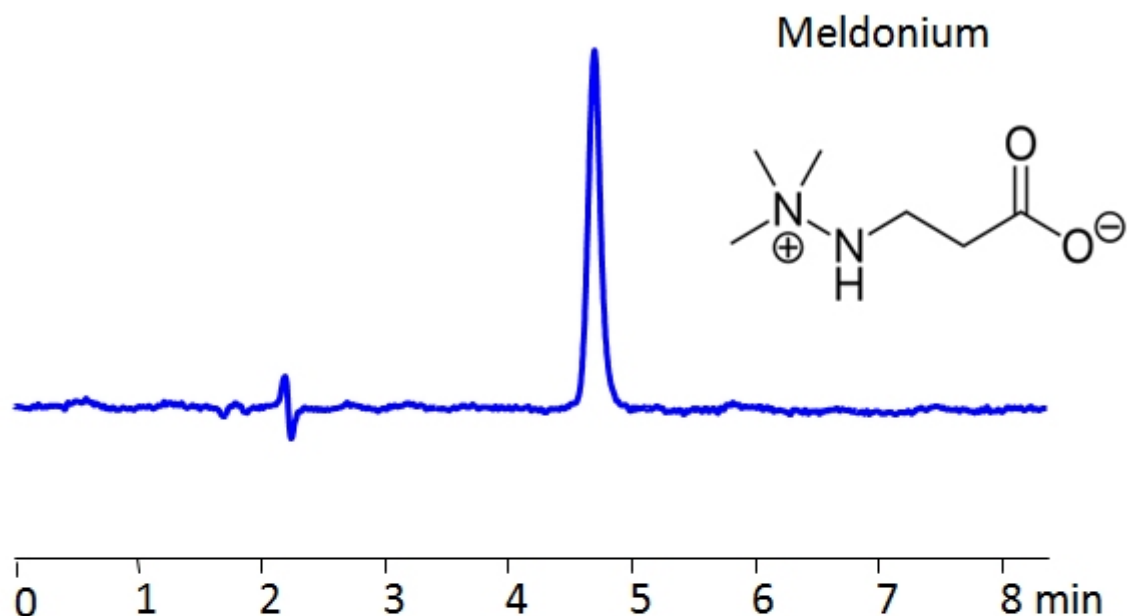


HPLC Method For Analysis Of Meldonium in Mildronate Tablet Dosage Form on Primesep 100 Column

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

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 25/75%
Buffer:	HClO ₄ – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 205 nm

Description

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

Meldonium is a medication with the chemical formula C₆H₁₄N₂O₂. It is a popular treatment for ischemia in Eastern Europe. Due to its metabolic modulating effects as well as its altering enzymatic reaction in the body it is considered to be a performance-enhancing drug, therefore, it has been banned by the World Anti-Doping Agency since 2016. It works as a fatty acid oxidation inhibitor by inhibiting enzymes in the carnitine biosynthesis pathways.

Meldonium 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 perchloric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	HClO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV, 205 nm
Class of Compounds	Amino acid, Drug
Analyzing Compounds	Meldonium

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)