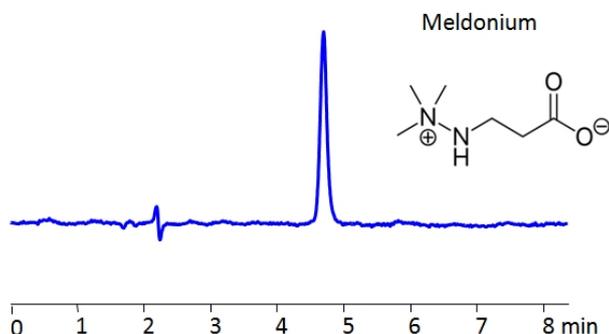


HPLC Method For Analysis Of Meldonium in Mildronate Tablet Dosage Form on Primesep 100 Column



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

Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of L-Carnitine and Arginine

Meldonium is a popular treatment for ischemia in Eastern Europe. It helps open the arteries, thereby increasing blood flow. Due to reports of athletes using it as a performance-enhancing drug, it has been banned by the World Anti-Doping Agency since 2016. Meldonium can be detected in the low UV regime. Using a Primesep 100 reverse-phase column and a mobile phase consisting of water and acetonitrile (MeCN) with a perchloric acid (HClO₄) buffer, meldonium can be retained, measured, and analyzed. This analysis method can be UV detected at 205 nm.

Method Parameters

Column	Primesep 100, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	HClO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV, 205 nm

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