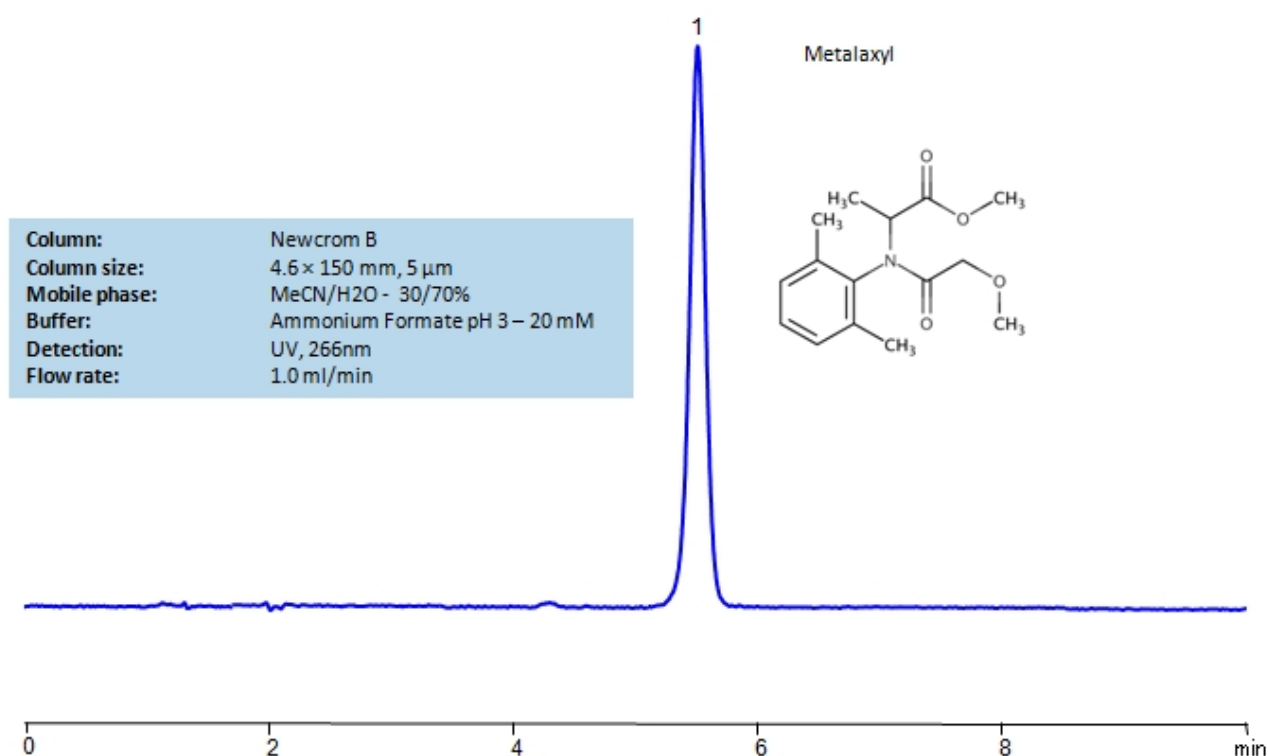


HPLC Determination of Metalaxyl on Newcrom B Column

<https://sielc.com/hplc-determination-of-metalaxyl-on-newcrom-b-column>

Chromatogram



Description

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

Metalaxyl , also known as methyl N-(methoxyacetyl)-N-(2,6-xylyl)-DL-alaninate, is a systemic fungicide with the chemical formula C₁₅ H₂₁ NO₄ . It is used to control Pythium and Phytophthora in vegetables. It has suffered a resistance problem going back to the 1980s.

Metalaxyl can be retained and analyzed using the Newcrom B stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an ammonium formate buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	AmFm pH 3.0 – 20 mM
Flow Rate	1.0 ml/min
Detection	UV, 266 nm
Class of Compounds	Hydrophobic, Herbicide, Pesticide
Analyzing Compounds	Metalaxyl

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)