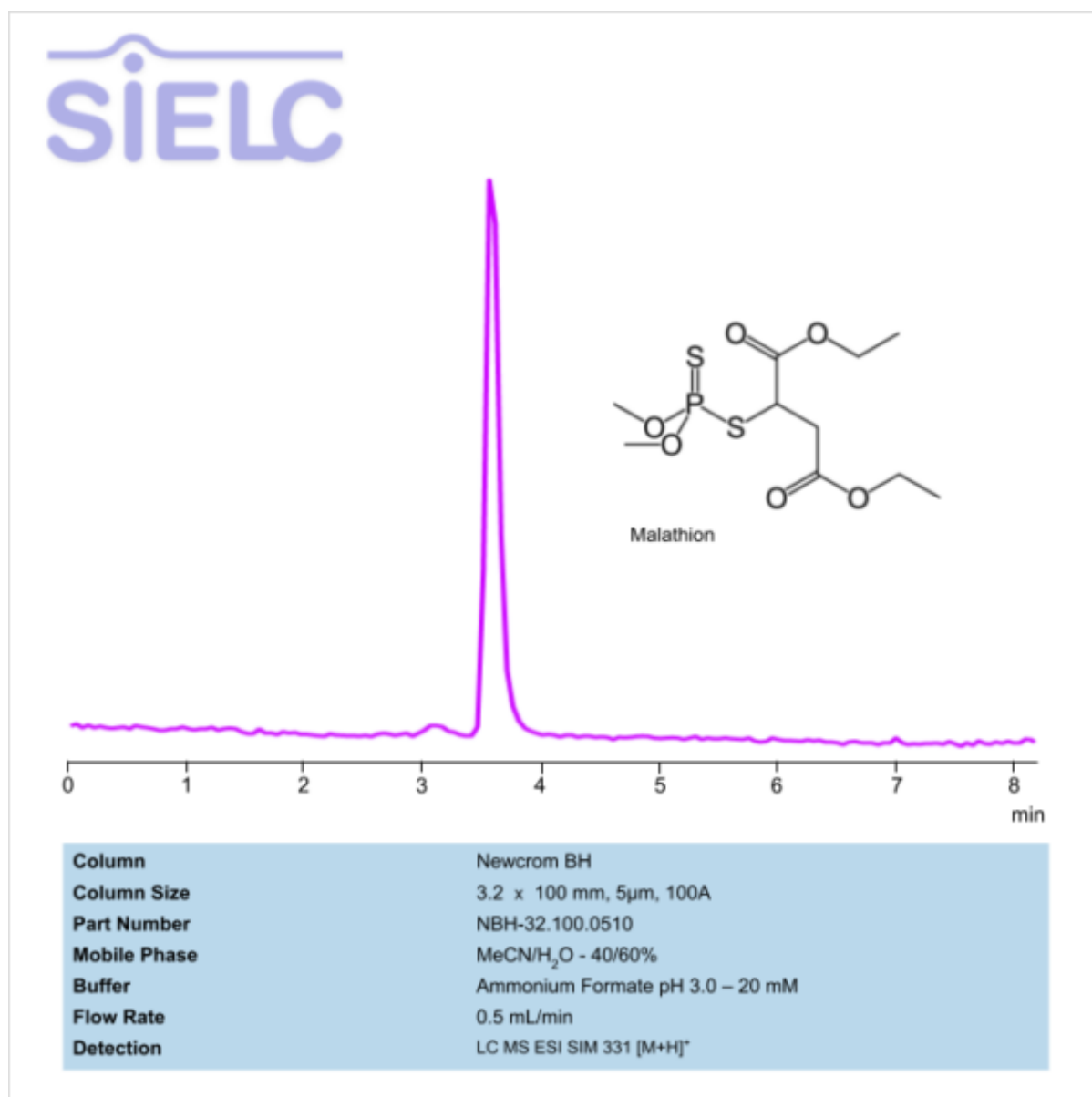


HPLC MS Method for Determination of Malathion Newcrom BH Column

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

Chromatogram



Description

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

Malathion is the most widely used organophosphate pesticide with the chemical formula C₁₀H₁₉O₆PS₂. In the US, it is used heavily in residential landscaping and in public recreation areas, especially for fruit fly and mosquito eradication. While not considered toxic to humans, malathion metabolizes to a far more toxic malaoxon. The EURL (European Union Reference Laboratory), included malathion as a target pesticide for the EUPT-CF9 a proficiency test for cereals and feedingstuff that require multi-residue methods. can find detailed UV spectra of Malathion and information about its various lambda maxima by visiting the following link.

Malathion can be retained and analyzed using the Newcrom BH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) and ethanol. Detection is performed using LC MS.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 40/60%
Buffer	AmFm pH 3.0 – 20 mM
Flow Rate	0.5 ml/min
Detection	LC MS ESI SIM 331 [M+H] ⁺
Class of Compounds	Pesticide
Analyzing Compounds	Malathion

HPLC Column Used

Newcrom BH, 3.2 x 100 mm, 5 µm, 100 A, dual ended

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