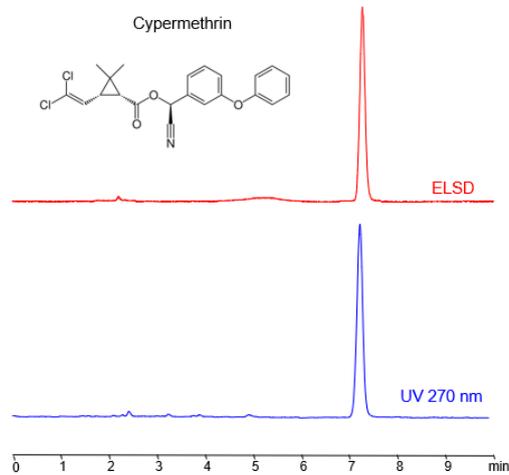


HPLC Method for Analysis of Cypermethrin on Primesep 200 Column



Column:	Primesep 200
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	Gradient MeCN – 60-80%, 10 min
Buffer:	Formic Acid - 0.5%
Flow rate:	1.0 mL/min
Detection:	ELSD, UV 270 nm

Separation type: Liquid Chromatography Mixed-mode

Cypermethrin is a synthetic pyrethroid with neurotoxic properties that is typically used as an insecticide. Cypermethrin can be retained, analyzed, and separated on a Primesep 200 column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a Formic acid (FA) ionic modifier. This analysis method can be detected in the low UV regime at 270 nm as well as with an Evaporative Light Scattering Detector (ELSD) or any other evaporative detection method (CAD, ESI-MS).

Method Parameters

Column	Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 60-80%, 10 min
Buffer	Formic Acid – 0.5%
Flow Rate	1.0 mL/min
Detection	UV 270 nm, ELSD, 50C

Quelle: <https://sielc.com/hplc-determination-of-cypermethrin>