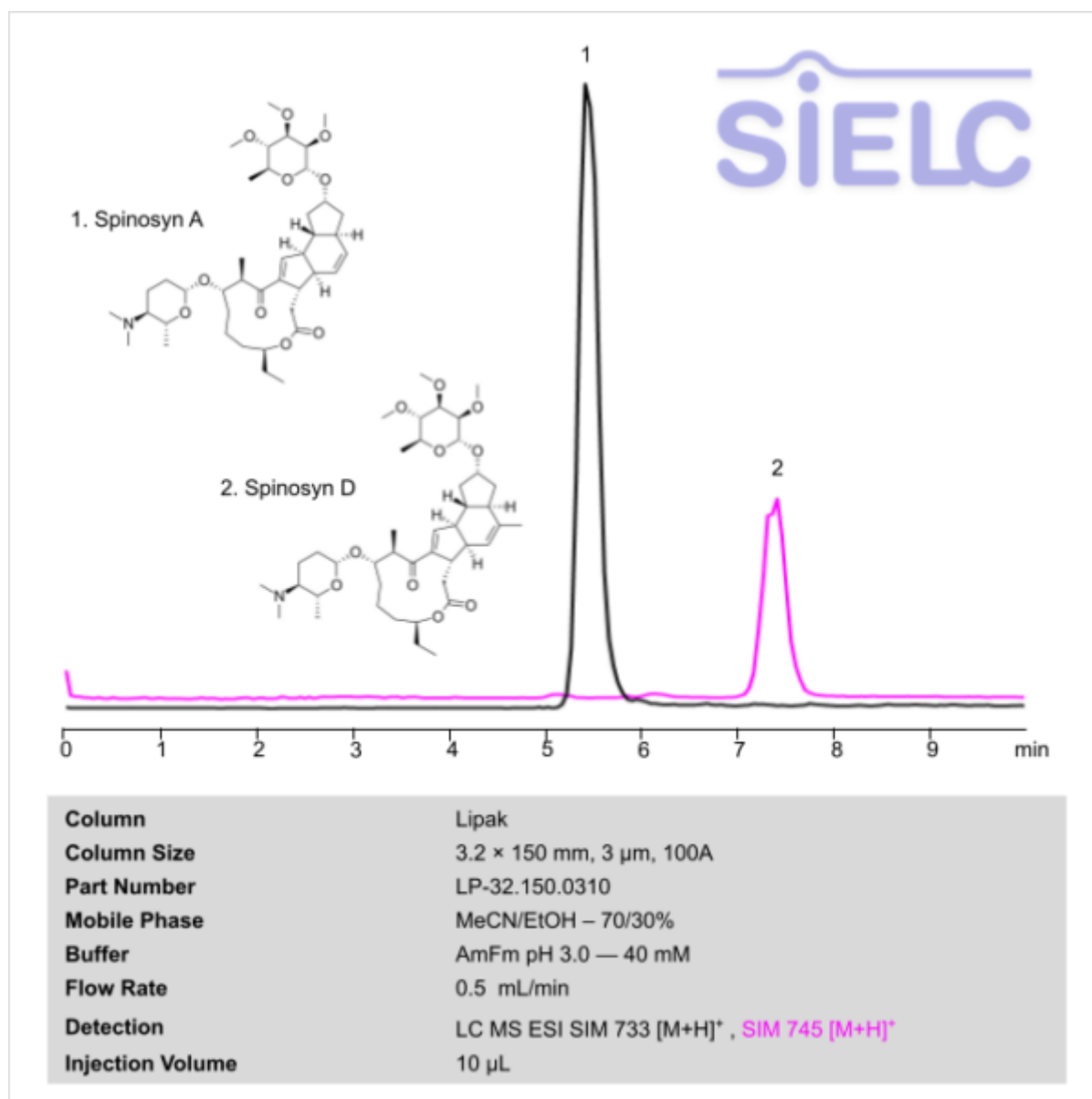


HPLC MS Method for Analysis of Spinosad (Spinosyn A and D) on Lipak Column

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

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Spinosyn A , Spinosyn D .

Spinosyn A and Spinosyn D are two parts of an insecticide called “ Spinosad ”. The insecticide works through both contact and ingestion by numerous insect species. Spinosyns and spinodoids target and bind to sites on nicotinic acetylcholine receptors, which disrupts neurotransmission and leads to the insects dying by hyperexcitation of the nervous system. You can find detailed UV spectra of Spinosyn A and information about its various lambda maxima by visiting the following link. You can find detailed UV spectra of Spinosyn D and information about its various lambda maxima by visiting the following link.

Spinosyn A , Spinosyn D can be retained and analyzed using the Lipak 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 – 70/30%
Buffer	AmFm pH 3.0 – 40 mM
Flow Rate	0.5 ml/min
Detection	LC MS ESI SIM 733 [M+H] ⁺ , SIM 745 [M+H]
Class of Compounds	Insecticide
Analyzing Compounds	Spinosyn A, Spinosyn D

HPLC Column Used

Lipak, 3.2 x 150 mm, 3 µm, 100 Å, dual ended

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