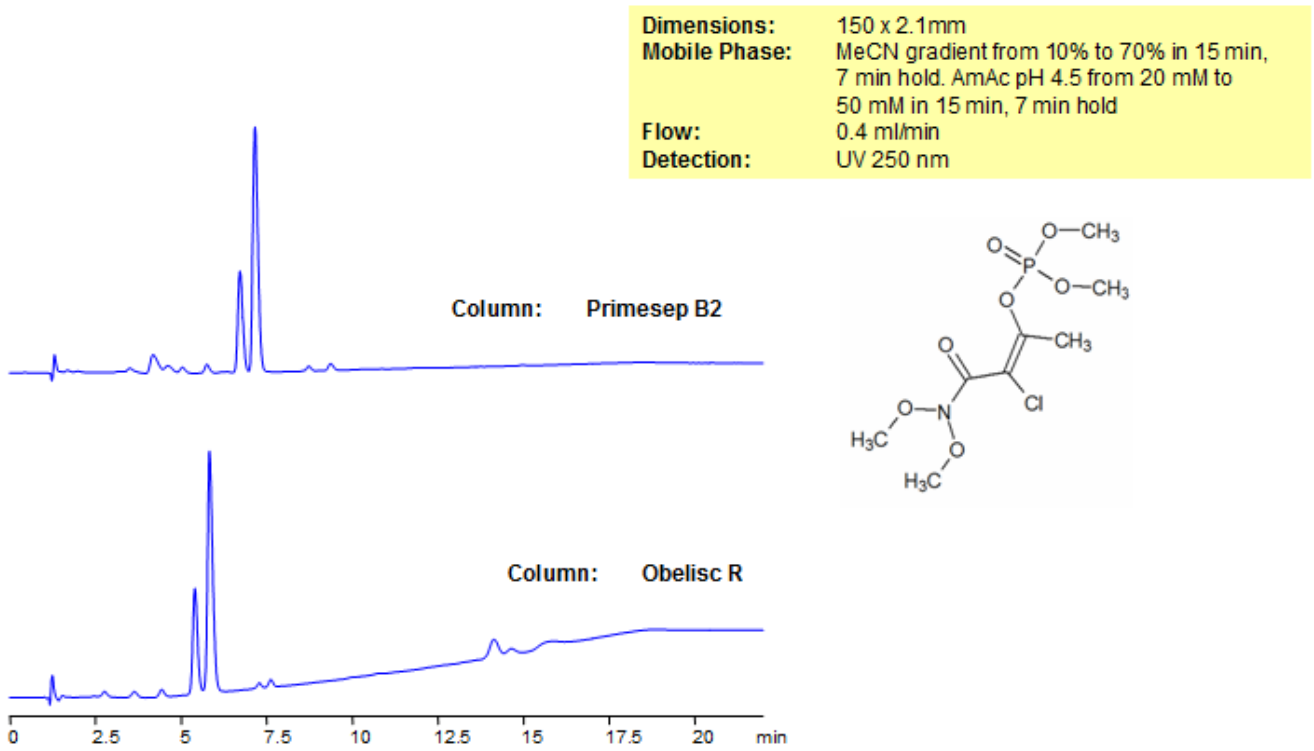
Phosphamidon Analysis Using Obelisc and Primesep Mixed-Mode HPLC Columns

https://sielc.com/Application-Phosphamidon-Analysis-Using-Obelisc-and-Primesep-Mixed-Mode-HPLC-Columns

Chromatogram



Description

Phosphamidon is an organophosphate insecticide commercially available as 70% Z -isomer and 30% E -isomer. It is highly toxic to mammals, and is classified by the World Health Organization to be extremely hazardous (Ia), with an oral lethal dose of less than 5mg/kg of bodyweight. The EURL included phosphamidon as a target pesticide for the EUPT-CF9. Primesep B2 and Obelisc R were used to retain phosphamidon and separate it from impurities. Primesep B2 contains embedded basic ion-pairing groups and Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. Method is LC/MS compatible and can be used as a general approach for analyzing phosphamidon, other organophosphate insecticides, and dozens of other pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 4,5- 20-50 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Phosphamidon

HPLC Column Used

Obelisc R, 2.1×150 mm, 5 µm, 100A

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