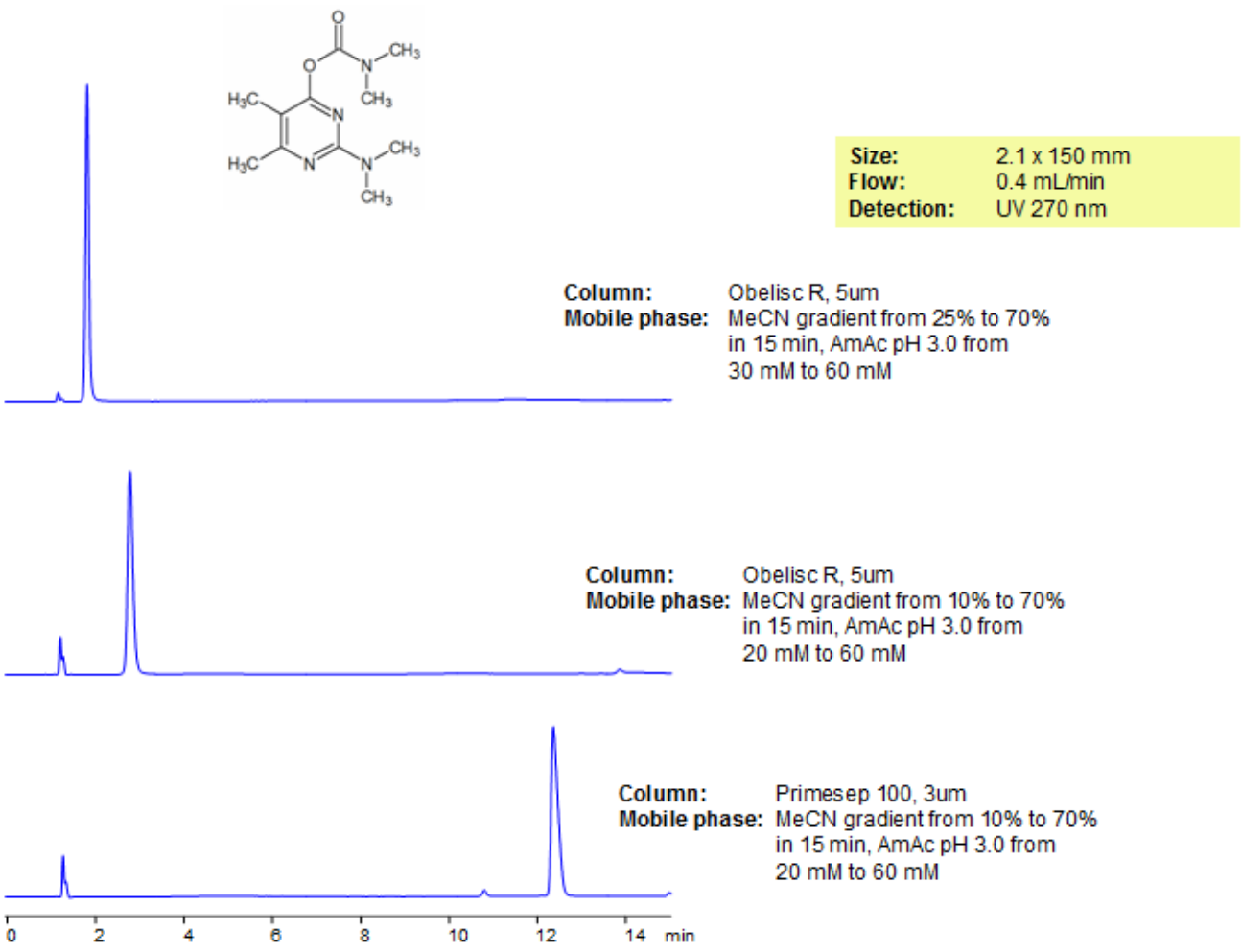
HPLC Retention of Pirimicarb on Primesep 100 and Obelisc R

https://sielc.com/Application-HPLC-Retention-of-Pirimicarb-on-Primesep-100-and-Obelisc-R

Chromatogram



Description

Pirimicarb is an insecticide that controls aphids on vegetable, cereal, and orchard crops. A carbamate insecticide, pirimicarb inhibits activity of the hydrolase acetylcholinesterase. Pirimicarb is a target pesticide in the EURL (European Union Reference Laboratory) EUPT-FF9 2015 a proficiency test for the analysis of a over a hundred pesticides. Primesep 100 and Obelisc R were used to retain pirimicarb and separate it from impurities. Primesep 100 contains embedded acidic 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 pirimicarb, other organophosphate insecticides, and dozens of other pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min
Flow Rate	0.4 ml/min
Detection	UV, 270 nm

Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Pirimicarb

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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