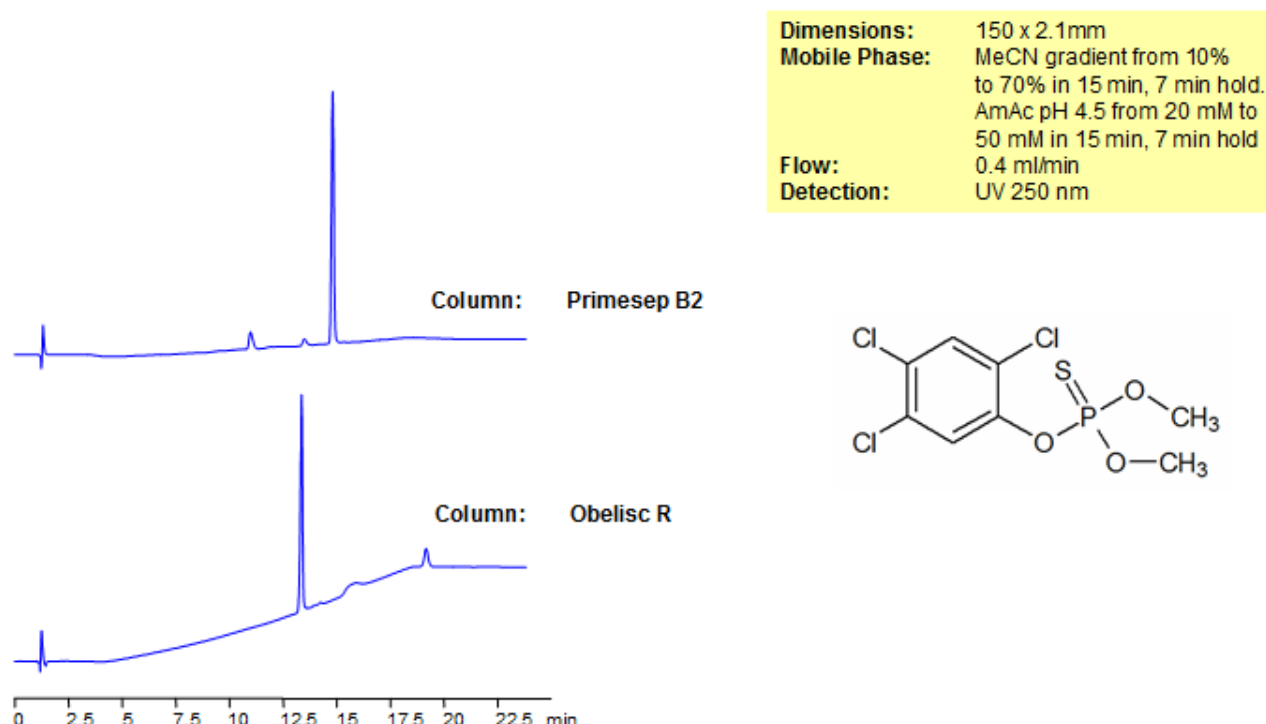


Chlorpyrifos-methyl Separation Using Obelisc and Primesep Columns

<https://sielc.com/Application-Chlorpyrifos-methyl-Separation-Using-Obelisc-and-Primesep-Columns>

Chromatogram



Description

Chlorpyrifos and Chlorpyrifos-methyl are amongst the most widely used pesticides. Chlorpyrifos is considered a target pesticide by the EURL (European Union Reference Laboratory) for the EURL-CF9 and Obelisc R and Primesep B2 were used to separate chlorpyrifos-methyl and its impurities using a single multiresidue method, which can be used for many pesticides. Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations, while Primesep B2 contains embedded basic ion-pairing groups. Method is LC/MS compatible and can be used as a general approach for analyzing organophosphate 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	Chlorpyrifos-methyl

HPLC Column Used

Obelisc R, 2.1×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](#)