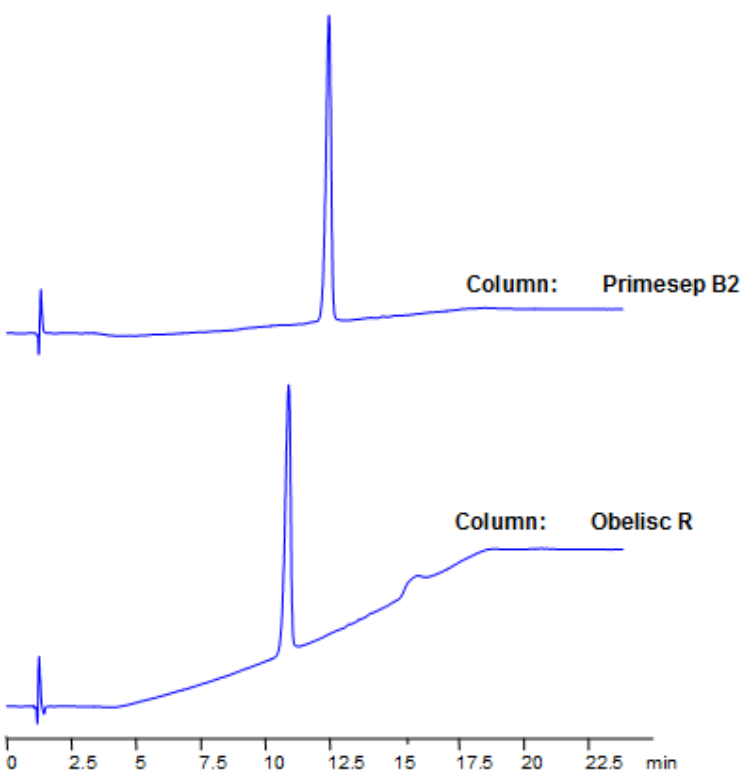
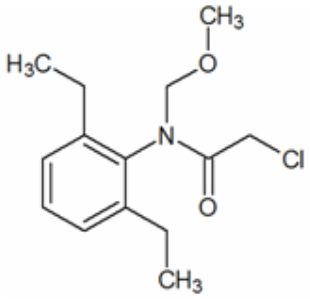
Alachlor Separation on Obelisc R Column

https://sielc.com/Application-Alachlor-Separation-on-Obelisc-and-Primesep-HPLC-Columns

Chromatogram



Dimensions:	150 x 2.1mm
Mobile Phase:	MeCN gradient from 10% to 70% in 15 min, 7 min hold. AmAc pH 4.5 from 20 mM to 50 mM in 15 min, 7 min hold
Flow:	0.4 ml/min
Detection:	UV 250 nm



Description

Alachlor is a herbicide which inhibits the gibberellin pathway. Use of alachlor is banned by the European Union and the U.S. EPA. The EURL (European Union Reference Laboratory) includes alachlor in a pesticide analysis of teas and chamomile by liquid and gas chromatography. A single multiresidue method was developed using both Primesep B2 and Obelisc R analyze 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 alachlor.

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	Alachlor

HPLC Column Used

Obelisc R, 2.1×150 mm, 5 µm, 100A

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