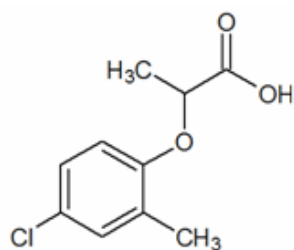


Mecoprop Analysis on Primesep and Obelisc Mixed-Mode HPLC Columns

<https://sielc.com/Application-Mecoprop-Analysis-on-Primesep-and-Obelisc-Mixed-Mode-HPLC-Columns>

Chromatogram



Size: 2.1 x 150 mm
Flow: 0.4 mL/min
Detection: UV 270 nm

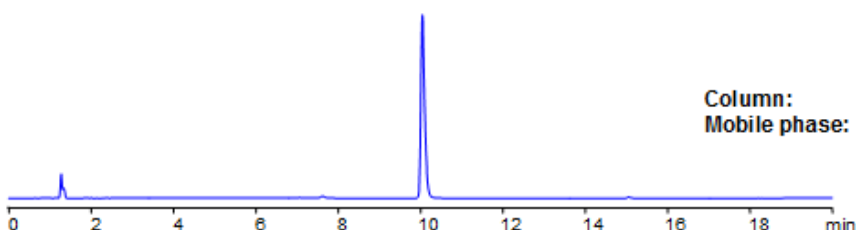
Column: Obelisc R
Mobile phase: MeCN gradient 25% to 70%
in 15 min 7 minute hold, AmFm pH 3.0
gradient from 30 mM to 60 mM



Column: Obelisc R
Mobile phase: MeCN gradient 10% to 70%
in 15 min, 7 minute hold, AmFm pH 3.0
gradient from 20 mM to 60 mM



Column: Primesep 100
Mobile phase: MeCN gradient 10% to 70%
in 15 min, 7 minute hold, AmFm pH 3.0
gradient from 20 mM to 60 mM



Description

Mecoprop or methylchlorophenoxypropionic acid (MCP) is a common herbicide found in many weed-killing/fertilizer products. The EURL (European Union Reference Laboratory) placed mecoprop in an Analysis of Acidic Pesticides using QueChERS method. Obelisc R and Primesep 100 were used to retain mecoprop, each with unique selectivity due to multiple modes of separation. Obelisc R contains embedded ion-pairing groups and a long hydrophobic chain, while Primesep 100 contains acidic ion-pairing groups. Method is LC/MS compatible and capable of retaining many different pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 270 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Mecoprop

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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