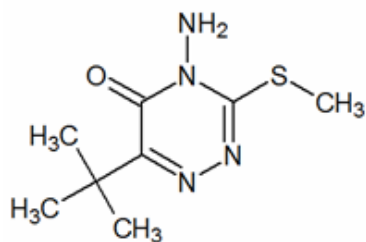


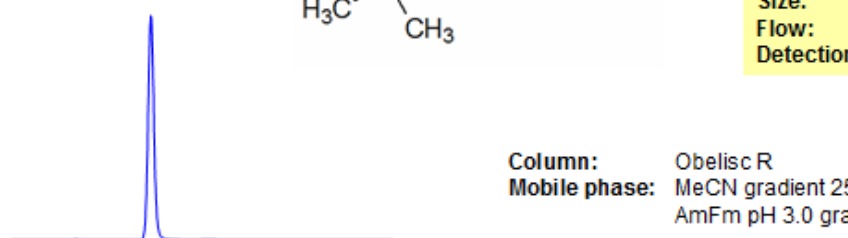
HPLC Separation of Metribuzin on Mixed-Mode HPLC Columns

<https://sielc.com/Application-HPLC-Separation-of-Metribuzin-on-Mixed-Mode-HPLC-Columns>

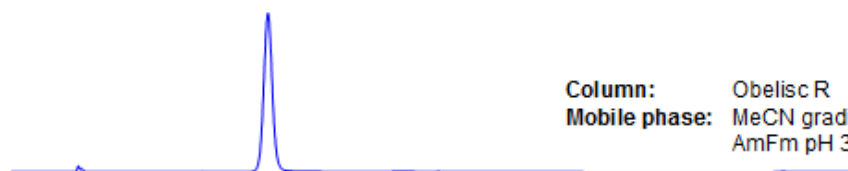
Chromatogram



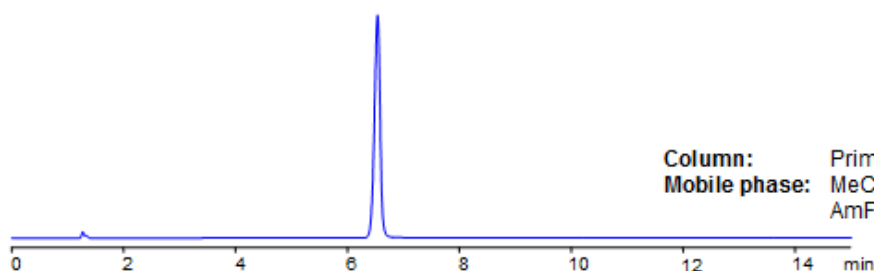
Size: 2.1 x 150 mm
Flow: 0.4 mL/min
Detection: UV 270 nm



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



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



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

Description

· Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of Metribuzin. Metribuzin is a pre- and post- emergence herbicide on the EURL (European Union Reference Laboratory) Target Pesticide List for the EUPT-CF9 2015 (European Union Proficiency Test for Cereals and Feeding stuff). Metribuzin disrupts photosynthesis in plants growing near food crops such as potatoes, tomatoes and sugar cane. Obelisc R and Primesep 100 were used to retain Metribuzin using multiple modes of separation. Obelisc R contains a long hydrophobic chain and ion-pairing groups, while Primesep 100 contains embedded acidic ion-pairing groups. Method is LC/MS compatible and can be used with similar conditions to retain many 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	Metribuzin

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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