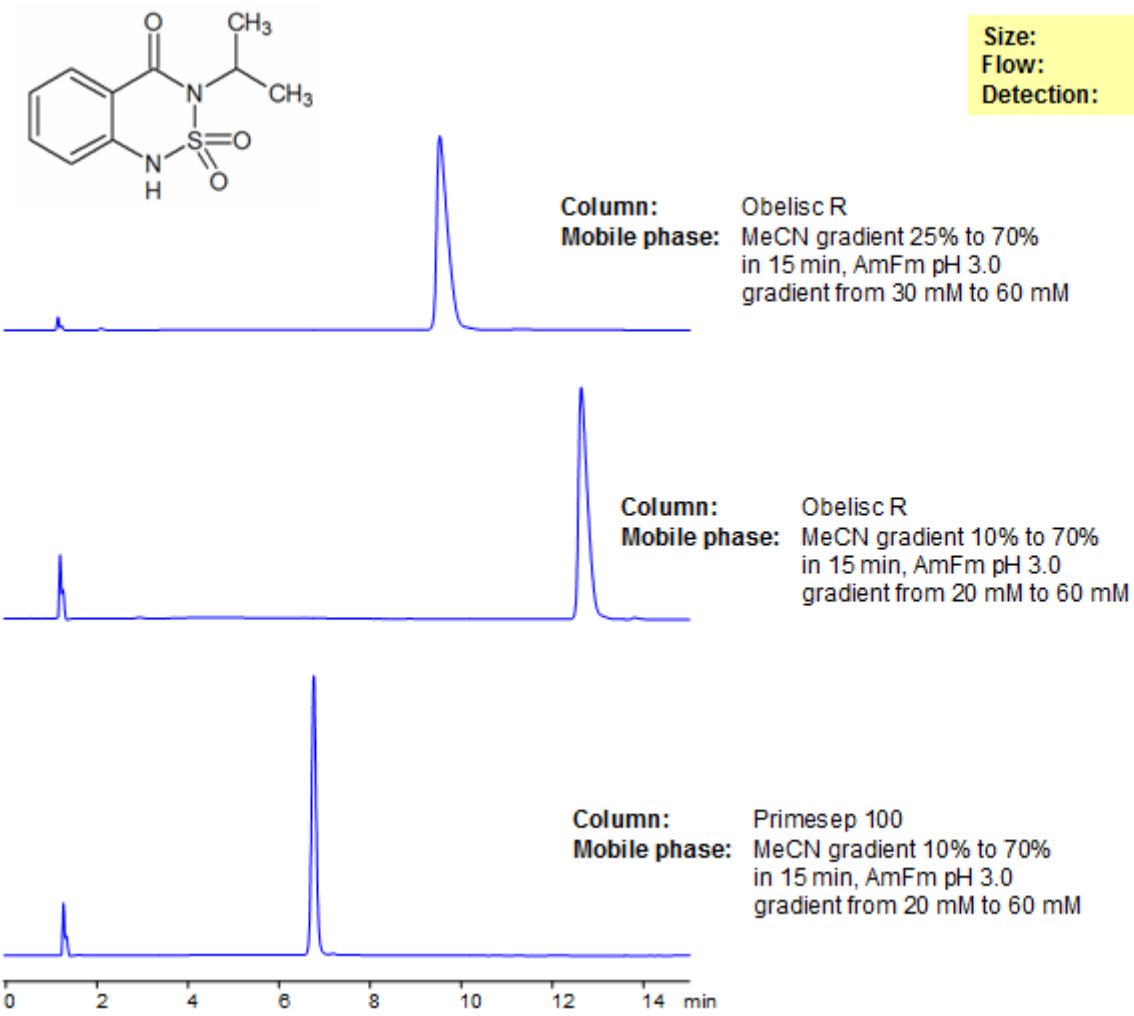
HPLC Analysis of Bentazon on Primesep and Obelisc Mixed-Mode Columns

https://sielc.com/Application-HPLC-Analysis-of-Bentazon-on-Primesep-and-Obelisc-Mixed-Mode-Columns

Chromatogram



Description

Bentazon is a thiadiazine herbicide which is used to control the growth of specific plants. Some plants are not affected such as alfalfa, corn and peanuts. The EURL (European Union Reference Laboratory) included bentazon in an analysis of acidic pesticides using QuEChERS method. Primesep 100 and Obelisc R were used to retain and separate bentazon from impurities. Method is LC/MS compatible and developed to be used for 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	Bentazon

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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