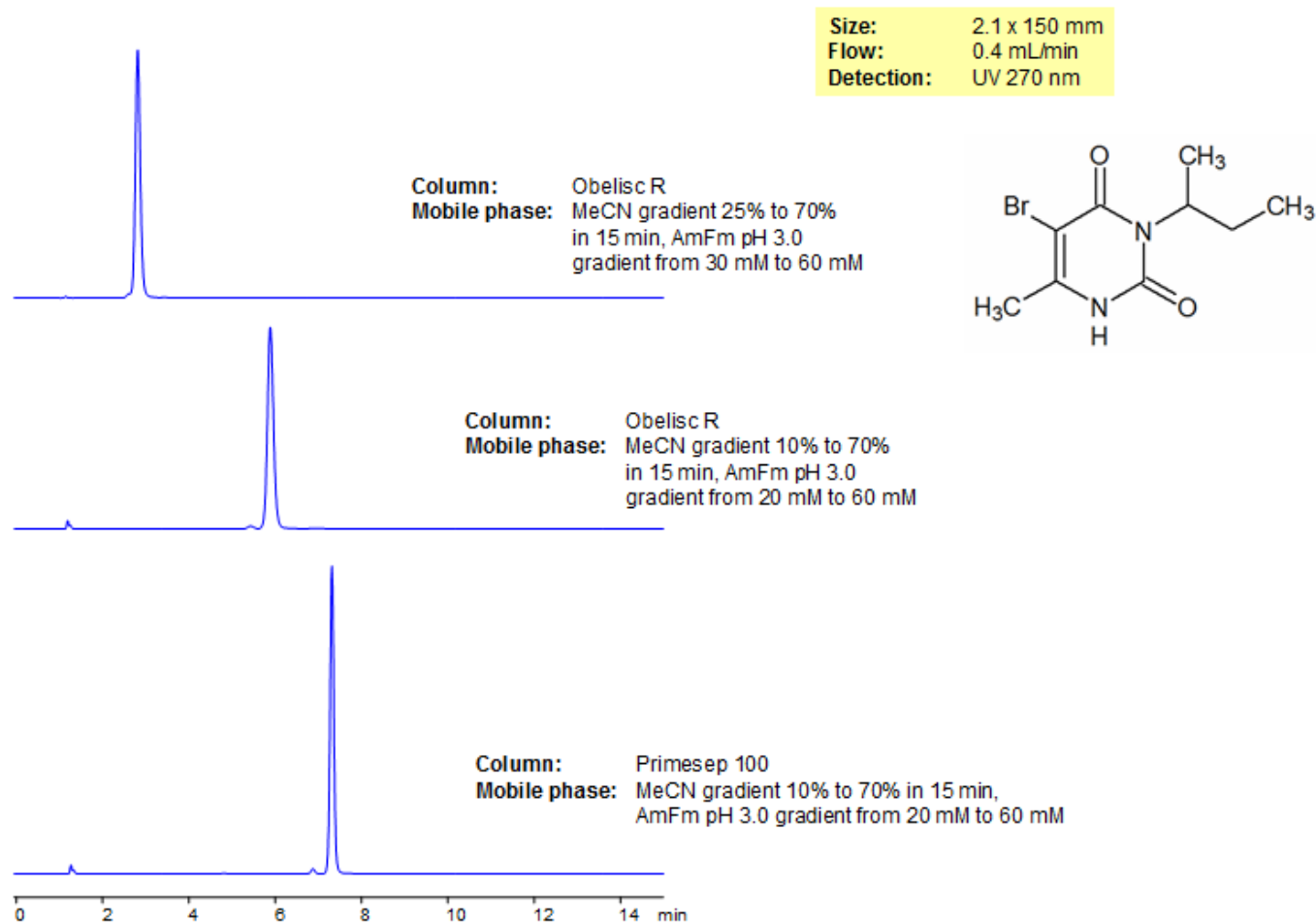


Retention Control of Bromacil on Primesep and Obelisc Mixed-Mode Columns

<https://sielc.com/Application-Retention-Control-of-Bromacil-on-Primesep-and-Obelisc-Mixed-Mode-Columns>

Chromatogram



Description

Bromacil is in a group of herbicides called substituted uracils. It non-selectively enters plant root systems and interferes with photosynthesis. Bromacil is used to control brush, but not used in cropland or residential areas because it is toxic. Primesep 100 and Obelisc R were used to separate bromacil with different selectivity. Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations, while Primesep 100 contains embedded acidic ion-pairing groups. Method is LC/MS compatible and useful for separating 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

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A[Order this column at hplc-shop.de →](http://hplc-shop.de)