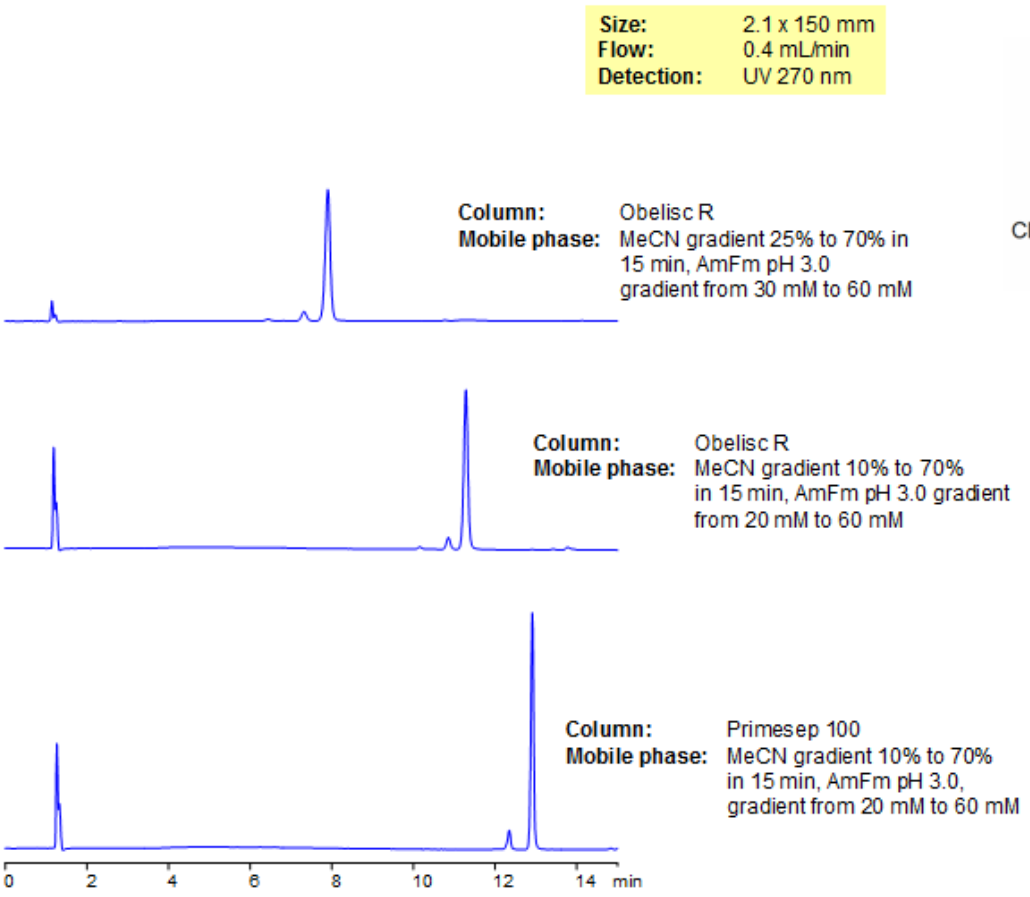
Diclobutrazol Separation on Primesep and Obelisc HPLC Columns

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

Chromatogram



Description

Diclobutrazol is a fungicide based on 1,2,4-triazol. It is used in production of coffee and various cereal grains. Primesep 100 Obelisc R were used to separate diclobutrazol. Primesep 100 is a mixed-mode column which uses embedded ion-pairing groups and Obelisc can fine tune separations using both a long hydrophobic chain and ionic groups. Method is LC/MS compatible and can 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	Diclobutrazol

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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