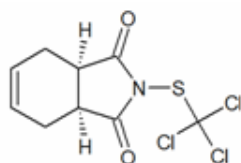


HPLC Separation of Captan on Obelisc R and Primesep 100 Columns

<https://sielc.com/Application-HPLC-Separation-of-Captan-on-Obelisc-R-and-Primesep-100-Columns>

Chromatogram

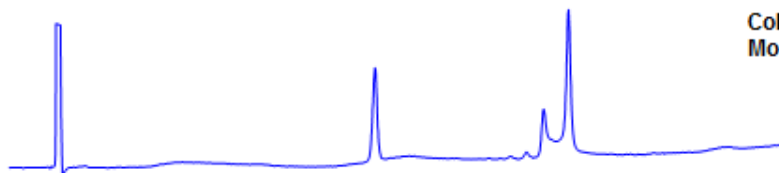


Size: 2.1 x 150 mm
Flow: 0.4 mL/min
Detection: UV 270 nm

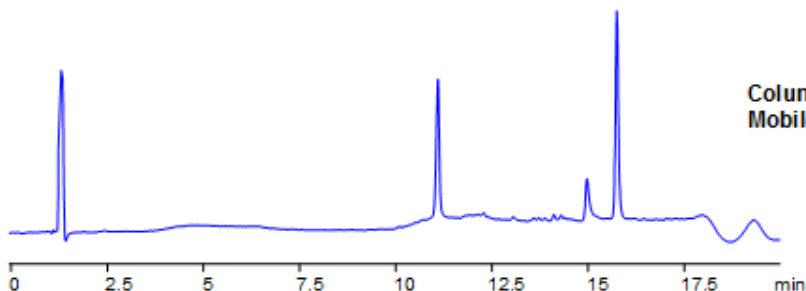
Column: Obelisc R, 5µm
Mobile phase: MeCN gradient from 25% to 70% in 15 min, 7 min hold, AmAc pH 3.0 from 30 mM to 60 mM



Column: Obelisc R, 5µm
Mobile phase: MeCN gradient from 10% to 70% in 15 min, 7 min hold, AmAc pH 3.0 from 20 mM to 60 mM



Column: Primesep 100, 3µm
Mobile phase: MeCN gradient from 10% to 70% in 15 min, 7 min hold, AmAc pH 3.0 from 20 mM to 60 mM



Description

Captan is a fungicide that is typically combined with other pesticides. It is in the class of fungicides called phthalimide, and is used on a number of vegetables and ornamental plants. Captan reduces infections on the surface of plant material improving their appearance. The EURL-SRM (European Union Reference Laboratory – Single Residue Methods) included captan in a list of pesticides difficult to analyze by traditional multiresidue methods. We separated and analyzed captan using two mixed-mode columns with different modes of separation. Obelisc R has a long hydrophobic chain and multiple ion-pairing groups, and Primesep 100 contains acidic ion-pairing groups. Method is LC/MS compatible and can be used on many different pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%
Buffer	Gradient AmAc pH 3.0- 20-60 mM
Flow Rate	0.4 ml/min
Detection	UV, 270 nm
Class of Compounds	Insecticide, Pesticide, 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)