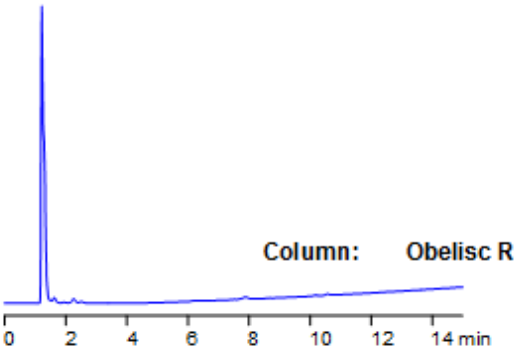
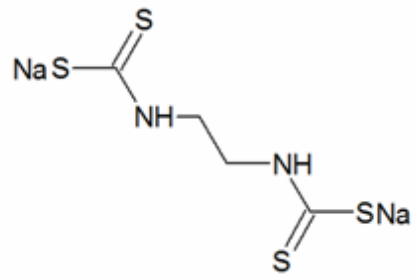
Nabam Analysis on Mixed-Mode HPLC Columns

https://sielc.com/Application-Nabam-Analysis-on-Mixed-Mode-HPLC-Columns

Chromatogram

Dimensions:	150 x 2.1mm
Mobile Phase:	MeCN gradient from 10% to 70% in 15 min, 7 min hold. AmAc pH 4.5 from 20 mM to 50 mM in 15 min, 7 min hold
Flow:	0.4 ml/min
Detection:	UV 250 nm





Description

Nabam is a di-thiocarbamate fungicide which is used on soils and leaves to protect from a variety of diseases on fruits, vegitables, field crops, and turf. Obelisc R and Primesep B2 were used to retain nabam and separate it from impurities. Primesep B2 contains embedded basic ion-pairing groups while Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. Method is LC/MS compatible and can be used as a general approach for analyzing nabam and dozens of other pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Nabam

HPLC Column Used

Obelisc R, 2.1×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →