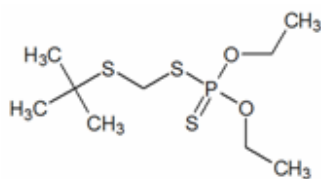


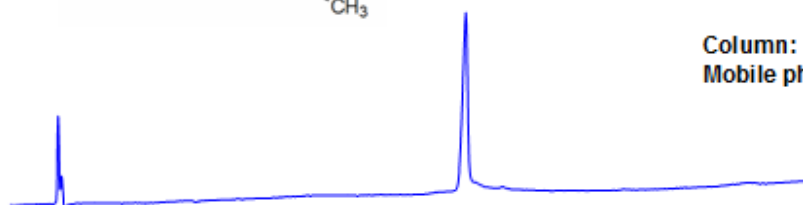
# Terbufos Analysis on Primesep 100 and Obelisc R Columns

<https://sielc.com/Application-Terbufos-Analysis-on-Primesep-100-and-Obelisc-R-Columns>

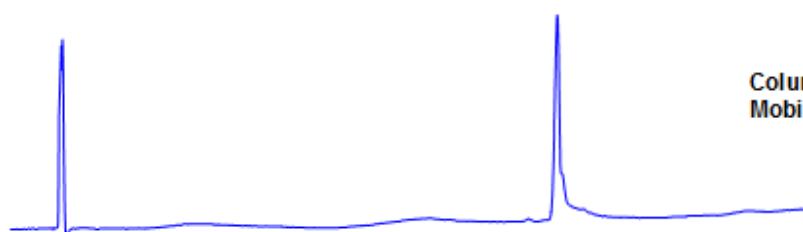
## Chromatogram



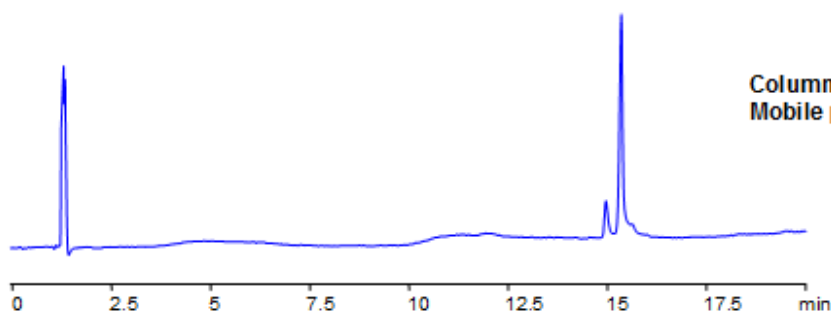
**Size:** 2.1 x 150 mm  
**Flow:** 0.4 mL/min  
**Detection:** UV 270 nm



**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

Terbufos is an organophosphate pesticide and nematocide used in the production of bananas, sugar beets, corn and grain. It is typically applied to the seed or while planting, controlling many insects, wireworms, seedcorn maggots, white grubs, and corn rootworm larva. Terbufos is extremely toxic to workers exposed to concentrated granules. Two mixed-mode HPLC columns were used to separate terbufos with unique selectivity. Primesep 100 is a reverse-phase HPLC column that contains embedded acidic ion-pairing groups. Obelisc R retains compounds with embedded hydrophobic chains and multiple ion-pairing groups. Method can be used to retain and separate dozens of pesticides and is LC/MS compatible.

## Method Parameters

<b>Mobile Phase</b>	Gradient MeCN – 10-70%
<b>Buffer</b>	Gradient AmAc pH 3.0- 20-60 mM
<b>Flow Rate</b>	0.4 ml/min
<b>Detection</b>	UV, 270 nm

<b>Class of Compounds</b>	Insecticide, Hydrophobic, Ionizable
<b>Analyzing Compounds</b>	Terbufos

#### HPLC Column Used

**Primesep 100, 2.1×150 mm, 5 µm, 100A**

[Order this column at hplc-shop.de →](http://hplc-shop.de)