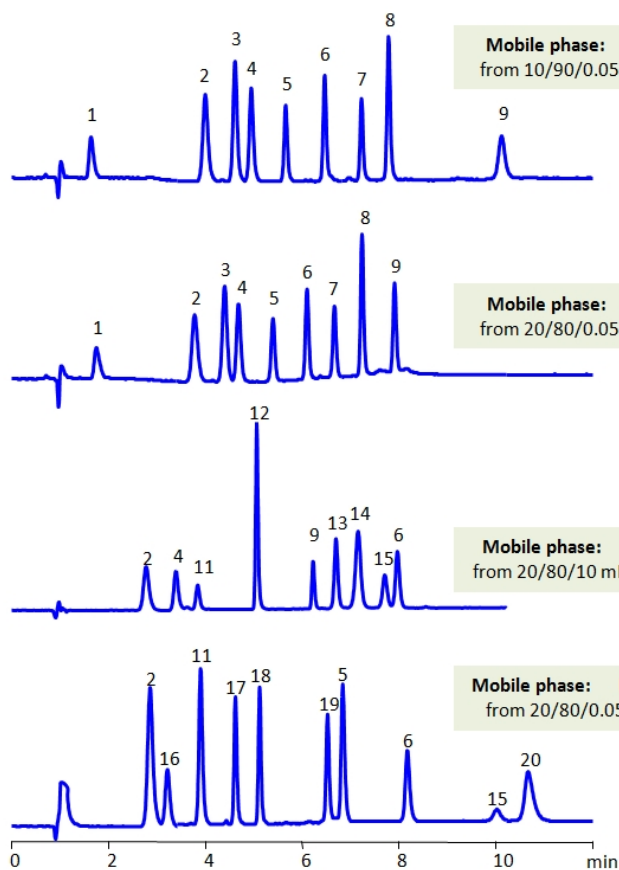


# HPLC Separation of Pesticides, Herbicides, Fungicides, and Insecticides on Newcrom BH Column

<https://sielc.com/hplc-separation-of-pesticides-herbicides-fungicides-and-insecticides-on-newcrom-bh-column>

## Chromatogram



Column: **Newcrom BH**  
Size: 3.2 x 100 mm, 5µm, 100A  
Flow: 0.6 ml/min  
Detection: UV 275 nm

1. Monocrotophos
2. Metribuzin
3. Bromacil
4. Carbofuran
5. 4-Chlorphenoxyacetic acid
6. Bentazone
7. Folpet
8. Fenthion
9. Fenvalerate
10. Carbofuran
11. Atrazine
12. Parathion –methyl
13. MCPA
14. Clopyralid
15. Dicamba
16. Simanize
17. Diuron
18. MCPB
19. Mecoprop
20. 2,4,5-T

## Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Mecoprop , MCPB , Diuron , Simazine , Dicamba , Clopyralid , MCPA , Atrazine , Carbofuran , Fenvalerate , Folpet , Bentazone-sodium , 2,4,5-Trichlorophenoxyacetic acid , 4-CPA , Methyl parathion , Metribuzin , Monocrotophos .

Herbicides are used to control unwanted plants, they are also known as weedkillers. Insecticides are used to kill insects. Fungicides are used to kill parasitic fungi. Pesticide is a more generic term that includes herbicides, fungicides and insecticides in its definition. All are heavily used in agriculture.

By using HPLC, many different pesticides can be separated and their retention characteristics controlled using the Newcrom BH mixed-mode column. It can be used with different organic media such as acetonitrile (ACN) or methanol (MeOH). By varying the concentration of organic modifier and using different buffers like sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), ammonium formate (AmFm), or formic acid, separation of desired pesticides can be achieved.

## Method Parameters

### Mobile Phase

MeCN, MeOH

### Buffer

H<sub>2</sub>SO<sub>4</sub>, Formic acid, AmFm pH 3.0

|                            |  |
|----------------------------|--|
| <b>Flow Rate</b>           | 0.6 ml/min   |
| <b>Detection</b>           | UV 275 nm  |
| <b>Class of Compounds</b>  | Pesticides, Herbicides, Fungicides, Insecticides   |
| <b>Analyzing Compounds</b> | Mecoprop, MCPB, Diuron, Simazine, Dicamba, Clopyralid, MCPA, Atrazine, Carbofuran, Fenvaler acid, 4-CPA, Methyl parathion, Metribuzin, Monocrotophos |

#### HPLC Column Used

**Newcrom BH, 3.2 x 100 mm, 5 µm, 100 A, dual ended**

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