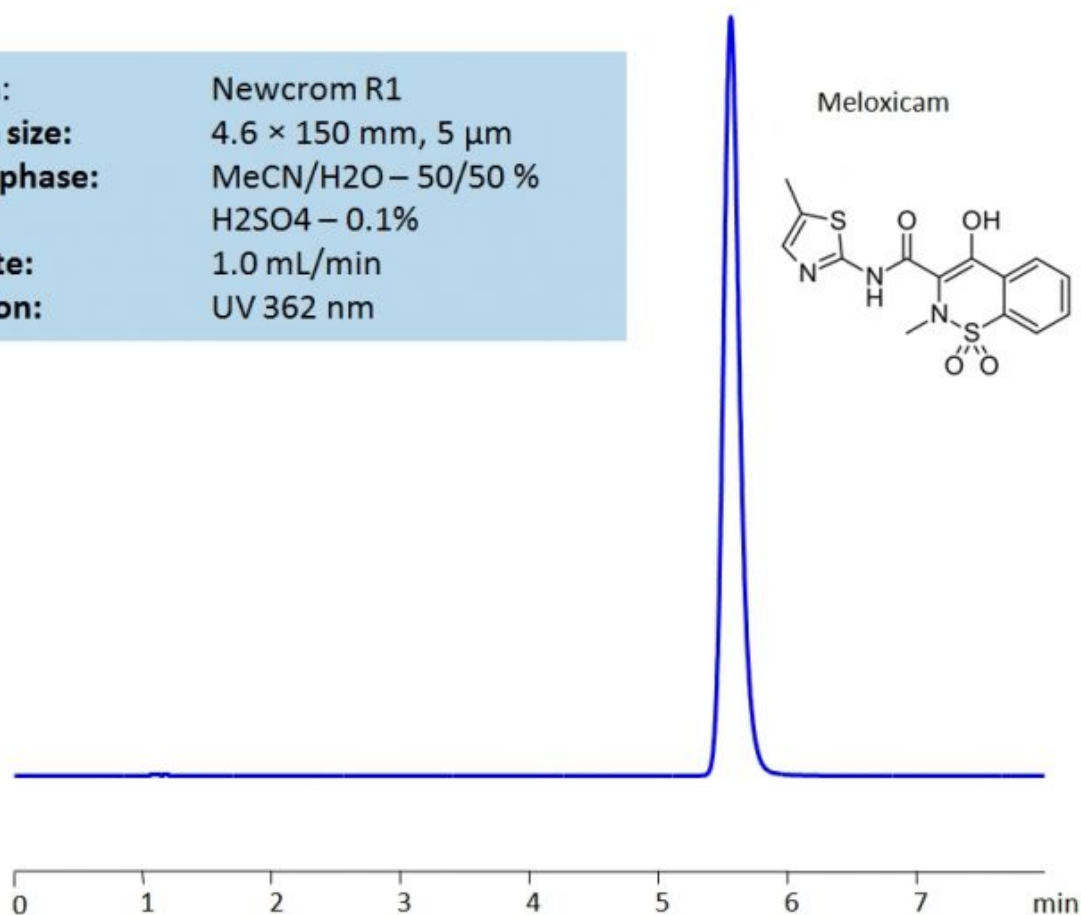


# HPLC Determination of Meloxicam on Newcrom R1 Column

<https://sielc.com/hplc-determination-of-meloxicam>

## Chromatogram

**Column:** Newcrom R1  
**Column size:** 4.6 × 150 mm, 5 µm  
**Mobile phase:** MeCN/H<sub>2</sub>O – 50/50 %  
**Buffer:** H<sub>2</sub>SO<sub>4</sub> – 0.1%  
**Flow rate:** 1.0 mL/min  
**Detection:** UV 362 nm



## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Meloxicam.

Meloxicam is a non-steroidal anti-inflammatory drug (NSAID) with the chemical formula C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>O<sub>4</sub>S<sub>2</sub>. It is reported to have antipyretic and analgesic activities. Meloxicam can result in gastrointestinal bleeding, headaches, rashes, and other toxic side effects. In certain countries, it is also widely used for veterinary cases.

Meloxicam can be retained in HPLC on Newcrom R1 column with the simple isocratic mobile phase consisting of acetonitrile (MeCN) and water with sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) buffer. The analysis method can be UV detected at 362nm.

## Method Parameters

|              |                                       |
|--------------|---------------------------------------|
| Mobile Phase | MeCN – 50%                            |
| Buffer       | H <sub>2</sub> SO <sub>4</sub> – 0.1% |
| Flow Rate    | 1.0 ml/min                            |
| Detection    | 362 nm                                |

|                            |                   |
|----------------------------|-------------------|
| <b>Class of Compounds</b>  | Drug, Hydrophobic |
| <b>Analyzing Compounds</b> | Meloxicam         |

#### HPLC Column Used

**Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended**

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