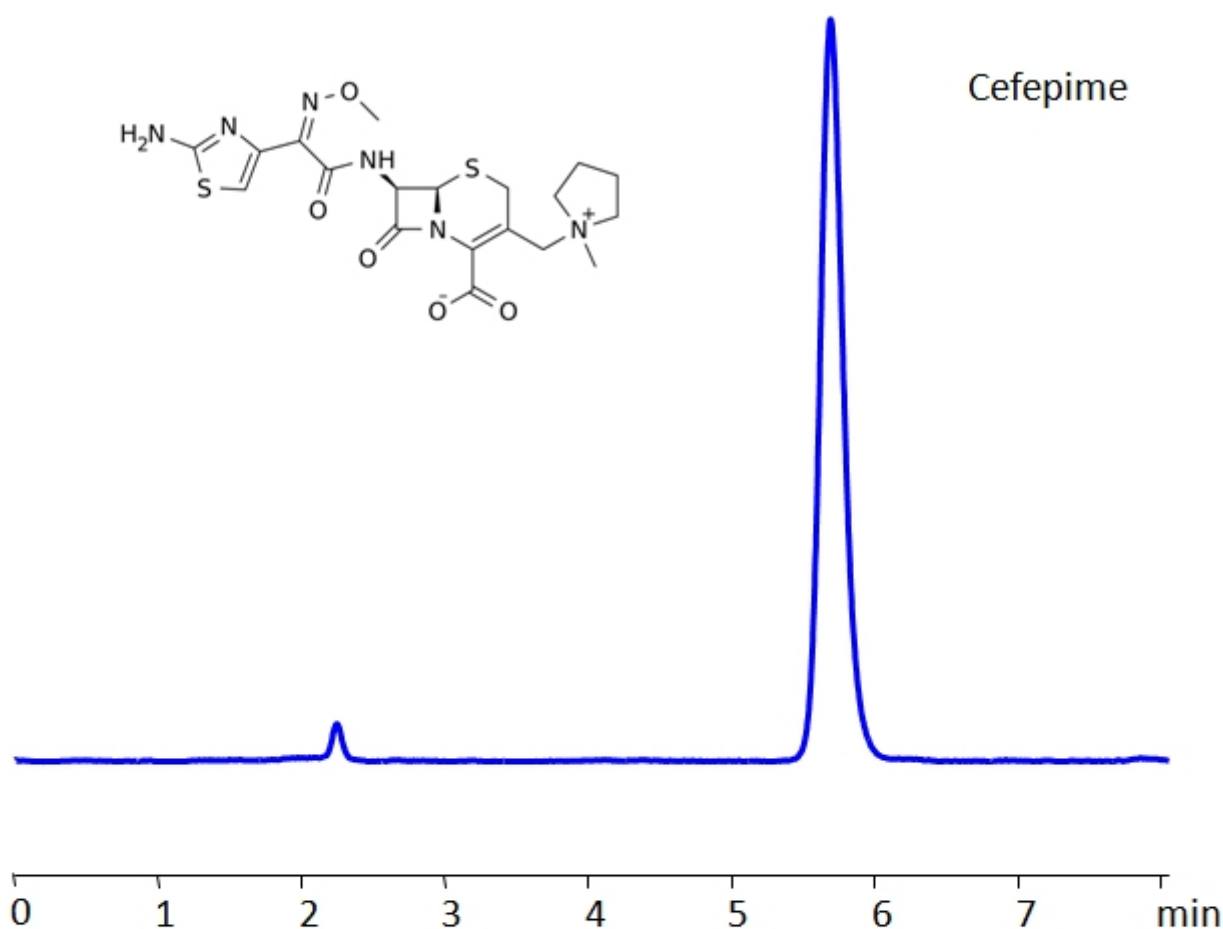


# HPLC Determination of Cefepime on Primesep 100 Column

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

## Chromatogram



|                            |                                       |
|----------------------------|---------------------------------------|
| <b>Column:</b>             | Primesep 100                          |
| <b>Column size:</b>        | 4.6 × 150 mm, 5 µm                    |
| <b>Column part number:</b> | 100-46.150.0510                       |
| <b>Mobile phase:</b>       | MeCN/H <sub>2</sub> O – 30/70%        |
| <b>Buffer:</b>             | H <sub>2</sub> SO <sub>4</sub> – 0.5% |
| <b>Flow rate:</b>          | 1.0 mL/min                            |
| <b>Detection:</b>          | UV 270 nm                             |

## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis Cefepime

Cefepime is a fourth generation cephalosporin antibiotic usually reserved for treatment of severe nosocomial pneumonia and febrile neutropenia as well as multiple drug-resistant microorganisms such as *Pseudomonas aeruginosa*, *Staphylococcus*

aureus, and Streptococcus pneumoniae.

Cefepime can be retained on the Primesep 100 mixed-mode column using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and sulphuric acid (H<sub>2</sub>SO<sub>4</sub>) buffer. The analysis method can be UV detected at 270 nm.

#### Method Parameters

|                     |                                       |
|---------------------|---------------------------------------|
| Mobile Phase        | MeCN/H <sub>2</sub> O – 30/70%        |
| Buffer              | H <sub>2</sub> SO <sub>4</sub> – 0.5% |
| Flow Rate           | 1.0 ml/min                            |
| Detection           | UV 270 nm                             |
| Class of Compounds  | Drug                                  |
| Analyzing Compounds | Cefepime                              |

#### HPLC Column Used

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

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