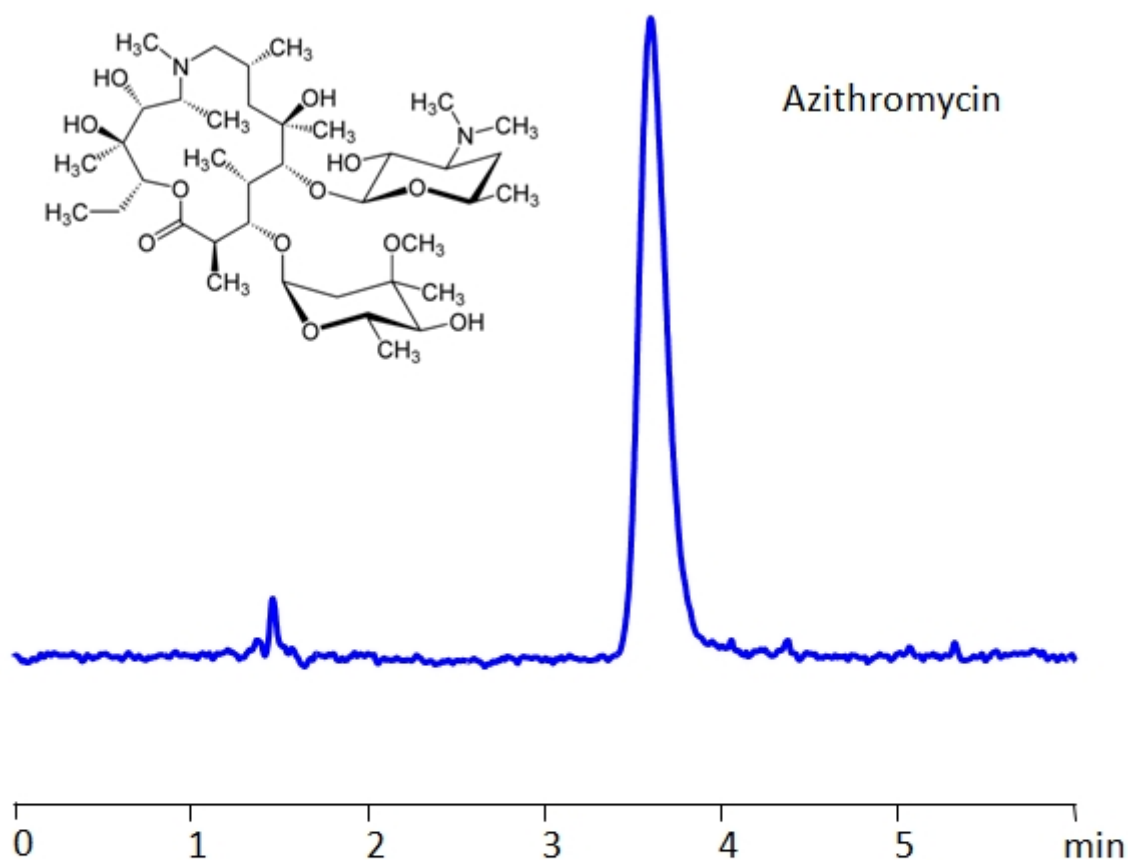


# HPLC Determination of Azithromycin on Primesep SB Column

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

## Chromatogram



|                      |                                 |
|----------------------|---------------------------------|
| <b>Column:</b>       | Primesep SB                     |
| <b>Column size:</b>  | 4.6 × 150 mm, 5 µm              |
| <b>Mobile phase:</b> | MeCN/H <sub>2</sub> O - 15/85%  |
| <b>Buffer:</b>       | Ammonium Formate - 50 mM pH 3.0 |
| <b>Flow rate:</b>    | 1 mL/min                        |
| <b>Detection:</b>    | CAD                             |

## Description

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

Azithromycin is an antibiotic used in the treatment of various bacterial infections. It is on the WHO's list of essential medicines and is classified as critically important. In reversed-phase HPLC, it generally exhibits significant tailing. The tailing can be substantially reduced by using a mixed-mode Primesep SB column with a simple MS-compatible mobile phase of water, acetonitrile (ACN) and ammonium formate (AmFm) buffer.

## Method Parameters

|                            |                                |
|----------------------------|--------------------------------|
| <b>Mobile Phase</b>        | MeCN/H <sub>2</sub> O – 15/85% |
| <b>Buffer</b>              | AmFm pH 3.0 – 50 mM            |
| <b>Flow Rate</b>           | 1.0 ml/min                     |
| <b>Detection</b>           | CAD                            |
| <b>Class of Compounds</b>  | Drug, Antibiotics              |
| <b>Analyzing Compounds</b> | Azithromycin                   |

#### HPLC Column Used

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

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