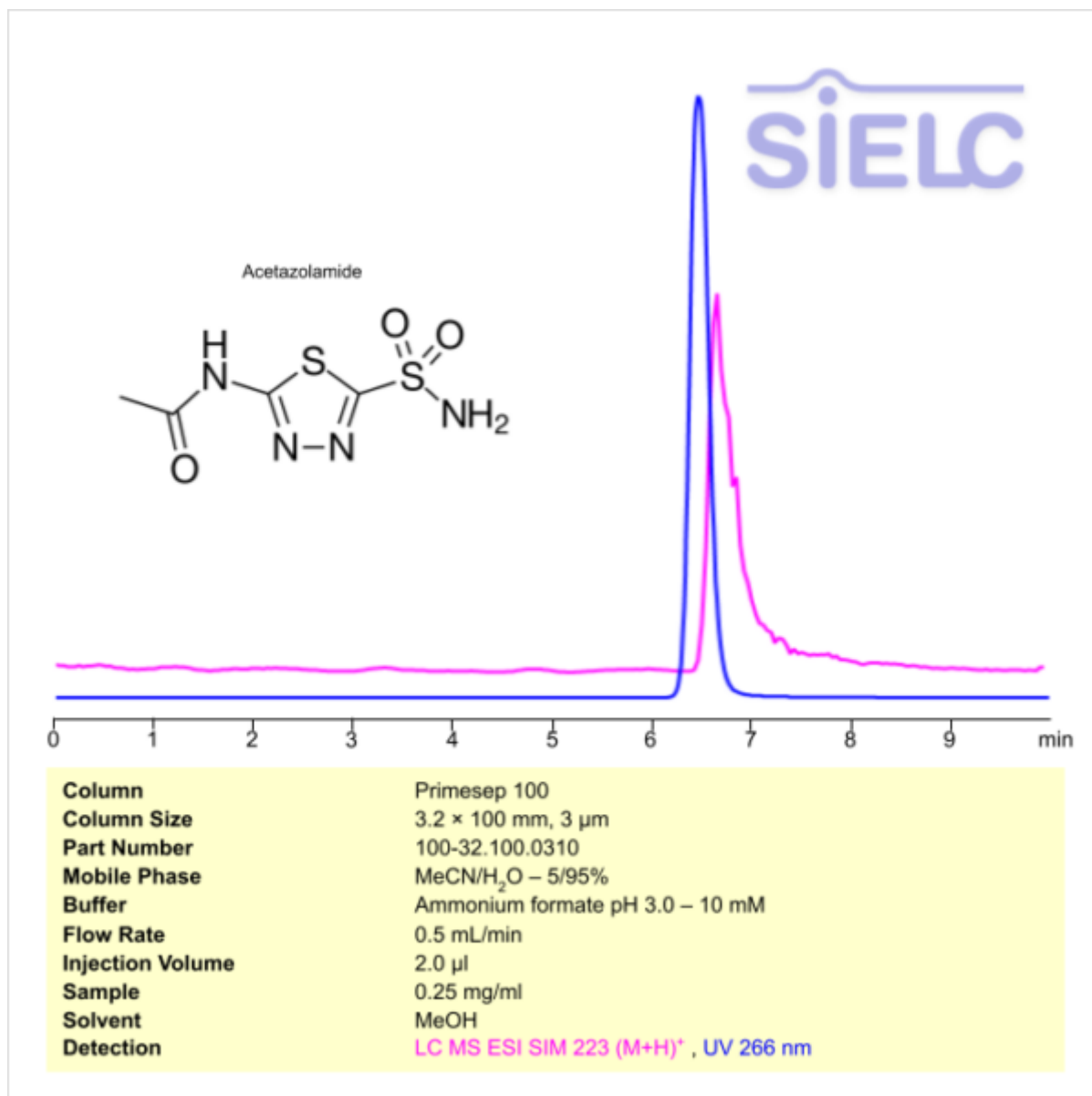


# HPLC MS Method for Analysis of Acetazolamide in Pharmaceutical Formulation on Primesep 100 Column

<https://sielc.com/hplc-ms-analysis-of-acetazolamide-2>

## Chromatogram



## Description

· HPLC Method for Analysis of Acetazolamide in on Primesep 100 Column

Acetazolamide is a chiral aromatic amine with the molecular formula C<sub>4</sub>H<sub>6</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>. It is used primarily to treat glaucoma, epilepsy, acute mountain sickness, heart failure, and more. It works as a carbonic anhydrase inhibitor, which causes the accumulation of carbonic acid, which is found in a wide variety of tissue. It is on the World Health Organization's List of Essential Medicines. You can find detailed UV spectra of [ compounds ] and information about its various lambda maxima by visiting the following link .

Acetazolamide can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of acetonitrile, water, and Ammonium Formate. Detection is performed using UV.

## Method Parameters

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| <b>Mobile Phase</b>        | MeCN/H <sub>2</sub> O 5/95%                      |
| <b>Buffer</b>              | Ammonium formate pH 3.0 – 10 mM                  |
| <b>Flow Rate</b>           | 0.5 ml/min                                       |
| <b>Detection</b>           | LC MS ESI SIM 223 (M+H) <sup>+</sup> , UV 266 nm |
| <b>Class of Compounds</b>  | Drug                                             |
| <b>Analyzing Compounds</b> | Acetazolamide                                    |

#### HPLC Column Used

**Primesep 100, 3.2 x 100 mm, 3 µm, 100 Å, dual ended**

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