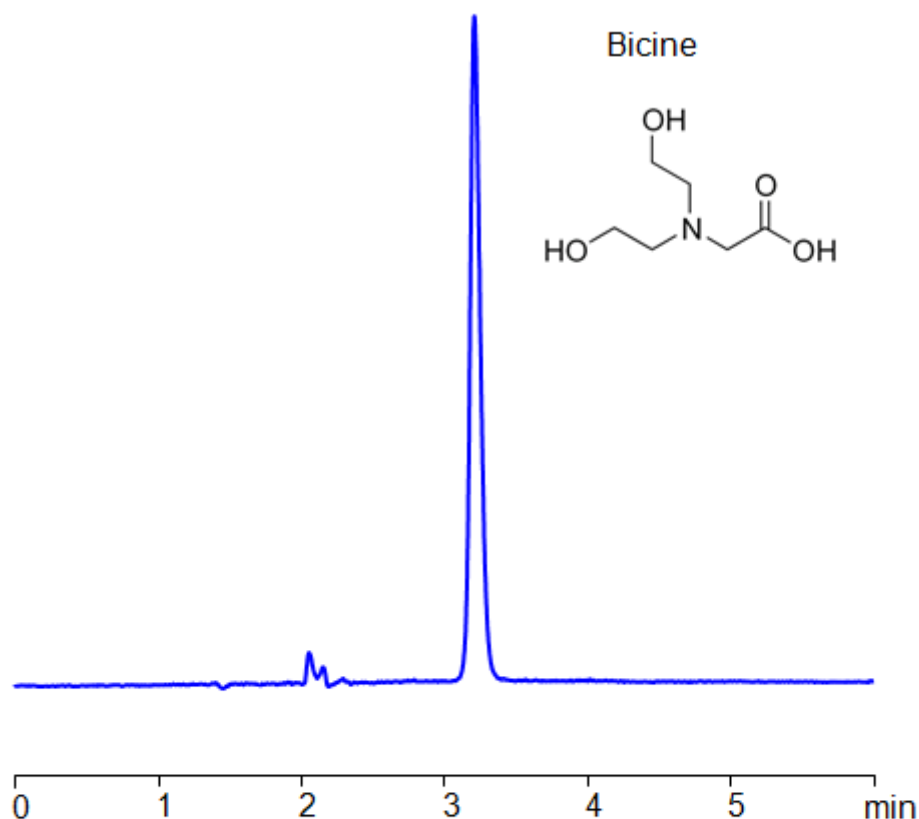


# HPLC Method for Analysis of Bicine on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-of-bicine>

## 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 – 20/80%        |
| <b>Buffer:</b>             | H <sub>2</sub> SO <sub>4</sub> – 0.1% |
| <b>Flow rate:</b>          | 1.0 mL/min                            |
| <b>Detection:</b>          | UV 200 nm                             |

## Description

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

Bicine is a common organic buffering agent with the chemical formula C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>. It is one of many buffering agents known as "Good's buffers," and like many of them, Bicine is zwitterionic. It is used in low temperature conditions due to its stable pH and high solubility even at 0 °C.

Bicine can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

## Method Parameters

|                            |                |
|----------------------------|----------------|
| <b>Mobile Phase</b>        | MeCN – 20%     |
| <b>Buffer</b>              | H2SO4 – 0.1%   |
| <b>Flow Rate</b>           | 1.0 ml/min     |
| <b>Detection</b>           | UV 200nm       |
| <b>Sample</b>              | 8 mg/ml in H2O |
| <b>LOD*</b>                | 3 ppm          |
| <b>Class of Compounds</b>  | Amino acid     |
| <b>Analyzing Compounds</b> | Bicine         |

#### HPLC Column Used

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

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