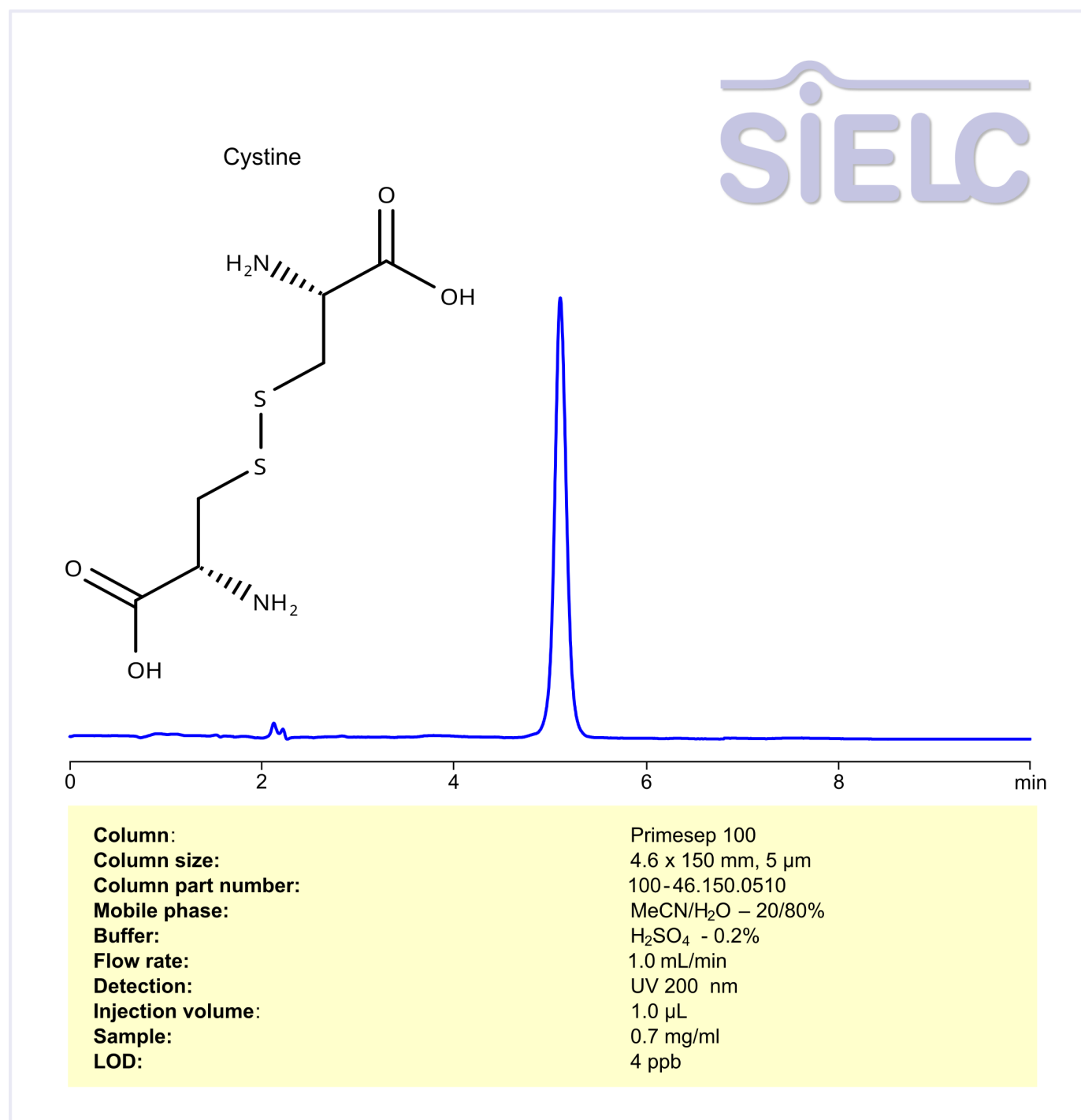


# HPLC Method for Analysis of Cystine on Primesep 100 Column

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

## Chromatogram



## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Cystine · Cystine is an organic compound with the molecular formula C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>.

Properties: Appearance: Typically appears yellowish with a waxy, compact, and partially opaque texture.

Molecular weight: ~240.3 g/mol · Solubility: Soluble in water with HCL or NaOH.

Uses: Plays a crucial role in various biological processes due to its ability to stabilize protein structures and its role as a precursor to the antioxidant glutathione.

Cystine 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, acetonitrile (MeCN), and sulfuric acid. Detection is performed using UV at 200 nm.

#### Method Parameters

<b>Mobile Phase</b>	MeCN – 20%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.2%
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV 200 nm
<b>Class of Compounds</b>	Disulfide Amino Acid
<b>Analyzing Compounds</b>	Cystine

#### HPLC Column Used

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

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