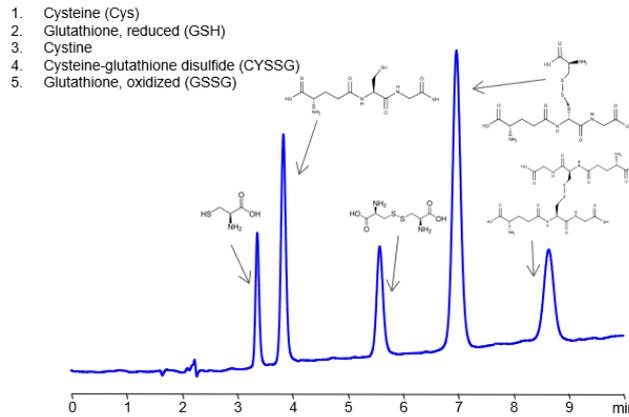


## HPLC Method for Separation of Sulfur-containing Biomolecules on Primesep 100 Column



<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 – 10 %
<b>Buffer:</b>	Gradient H <sub>2</sub> SO <sub>4</sub> – 0.2 – 0.3%, 10 min
<b>Flow rate:</b>	1.0 mL/min
<b>Detection:</b>	UV 200 nm

Separation type: Liquid Chromatography Mixed-mode

These compounds are all involved in redox reactions and cellular defenses against oxidative stress in biological systems. Here's a bit more about each of them:

Overall, these molecules play vital roles in the body's antioxidant defenses, detoxification of xenobiotics, modulation of redox-controlled signaling pathways, and regulation of cellular proliferation and apoptosis.

These compounds can be retained, separated, and analyzed using a reverse-phase Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended column. The mobile phase for this method consists of water, acetonitrile (MeCN), and Sulfuric acid, which serves as a buffer. This analytical method can be

### Method Parameters

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN -10%
<b>Buffer</b>	Gradient H <sub>2</sub> SO <sub>4</sub> 0.1-0.3%, 10 min
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 200 nm

Quelle: <https://sielc.com/hplc-separation-sulfur-containing-biomolecules>