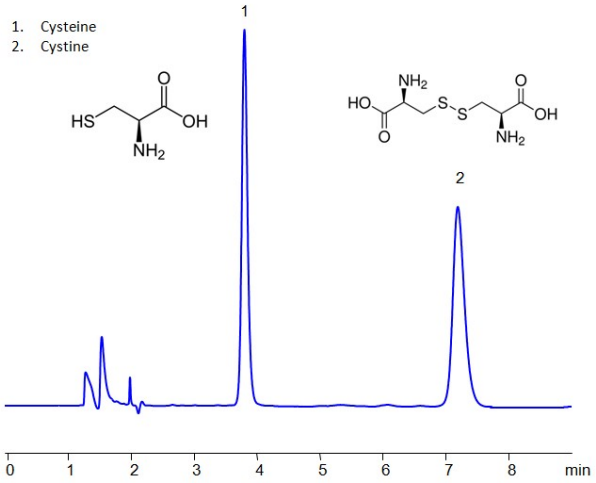
HPLC Method For Analysis Of Cysteine and Cystine on Primesep 100 Column



Column:	Primesep 100
Size:	4.6 x 150mm, 5 µm
Column part number:	100-46.150.0510
Flow:	1.0 mL/min
Mobile phase:	MeCN/H2O - 20/80%
Buffer:	H_2SO_4– 0.1%
Detection:	UV 200 nm

Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of Cysteine and Cystine

Cysteine is an amino acid that is an essential building block of a wide variety of proteins made and used throughout the entire body. Cystine is an oxidized dimer of cysteine that the body uses for redox reactions and as a linkage for proteins to keep their 3D structures. Cysteine and Cystine can be retained and analyzed on a mixed-mode Primesep 100 column with a mobile phase consisting of water, Acetonitrile (MeCN), and Sulfuric acid (H2SO4). This analytical method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 20/80%
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV, 200 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-cysteine-and-cystine