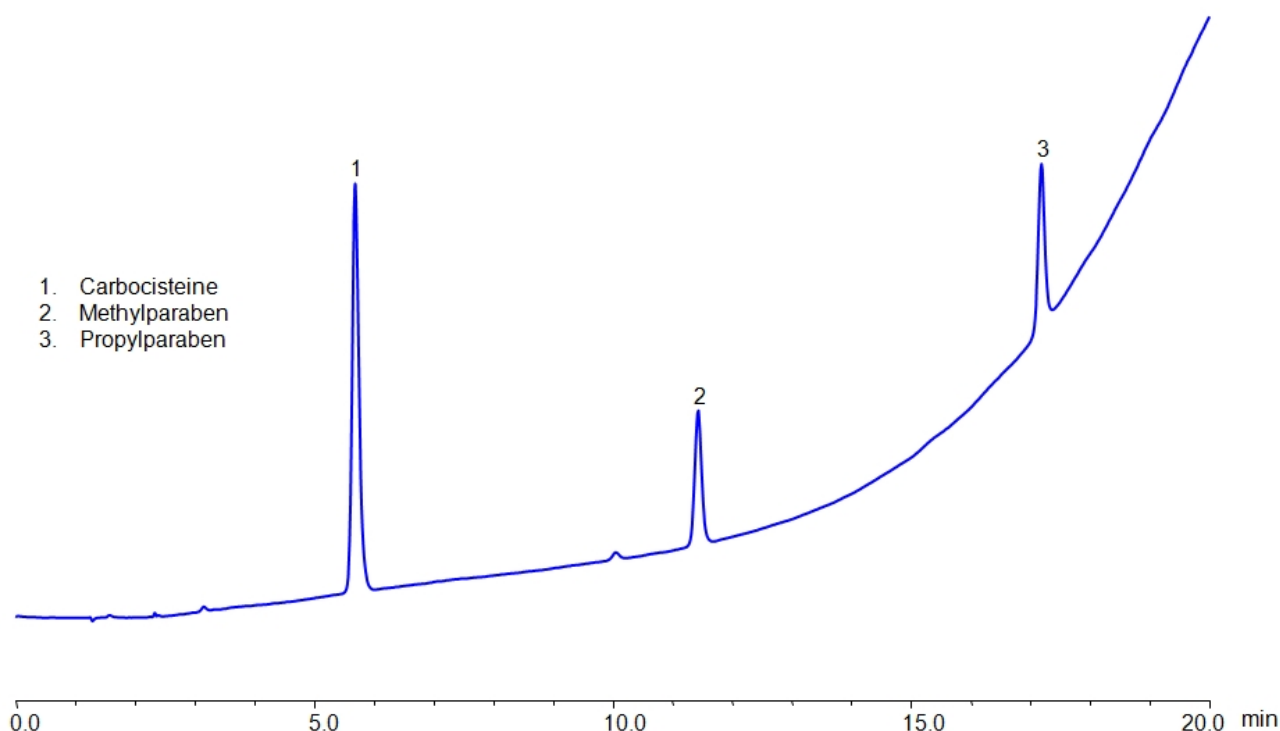


HPLC Separation of Mixture of Carbocisteine, Methylparaben & Propylparaben on Primesep 100 Column

<https://sielc.com/hplc-separation-of-mixture-of-carbocisteine-methylparaben-propylparaben>

Chromatogram



Column: Primesep 100
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: Gradient MeCN - 2-50% 20 min
Buffer: H₂SO₄ - 0.05%
Flow rate: 1 mL/min
UV detection: 200 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Carbocisteine , Methylparaben sodium , Propylparaben sodium , Propylparaben , Methylparaben .

Carbocysteine is a medication that reduces the viscosity of mucus making it easier to cough up. Methylparaben and propylparaben are used as preservatives in cosmetics, pharmaceuticals and food. They can be separated in HPLC on a Primesep 100 mixed-mode column by both hydrophobic and ionic properties present on the stationary phase. The analytical method uses acetonitrile (ACN) gradient and water with sulfuric acid (H₂SO₄) as buffer and UV detected at 200nm.

Method Parameters

Mobile Phase	Gradient MeCN – 2-50%, 20 min
Buffer	H ₂ SO ₄ – 0.05 %
Flow Rate	1.0 ml/min

Detection	UV, 200 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Carboxylic acid, Carbocyclic, Benzoate, Hydroxy Acid, Amino Acid, Hydroxybenzoate, Phenol
Analyzing Compounds	Carbocisteine, Methylparaben sodium, Propylparaben sodium, Propylparaben, Methylparaben

HPLC Column Used

Primesep 100

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