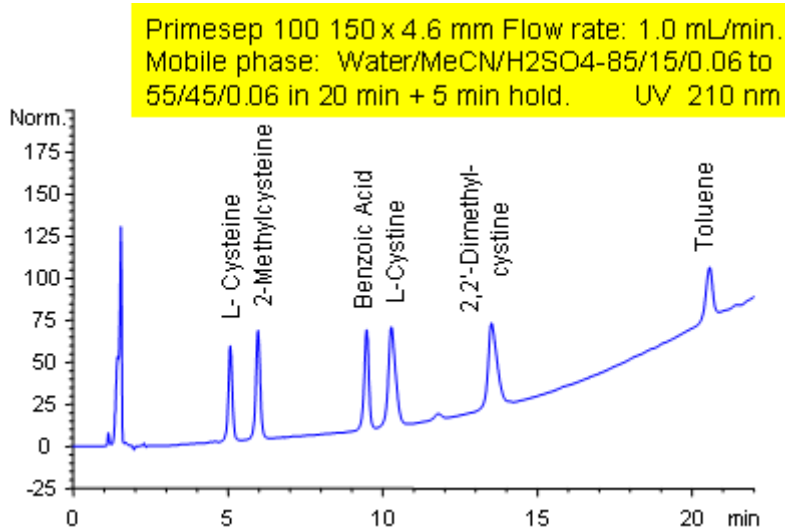


Hydrophobic and Hydrophilic Compound Separation

<https://sielc.com/Application-Hydrophobic-and-Hydrophilic-Compound-Separation>

Chromatogram



Description

Primesep 100 separates a mixture of polar and nonpolar compounds in one analytical run. The amino acid cysteine; amino acid derivatives L-cystine, 2,2-dimethylcystine, and 2-methylcysteine; the polar acid benzoic acid; and the nonpolar neutral toluene are separated by a gradient using a combination of polar and hydrophobic interactions. The separation method uses a mobile phase mixture of water, acetonitrile (MeCN, ACN) and sulfuric acid (H₂SO₄) with UV detection at 210 nm.

Method Parameters

| | |
|---------------------|---|
| Mobile Phase | MeCN/H ₂ O |
| Buffer | H ₂ SO ₄ |
| Flow Rate | 1.0 ml/min |
| Detection | UV 210 nm |
| Class of Compounds | Drug, Acid, Hydrophilic, Ionizable, Nonpolar, Polar, Supplements |
| Analyzing Compounds | Cysteine, L-cystine, 2,2-dimethylcystine, 2-methylcysteine, Benzoic Acid, Toluene |

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A

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