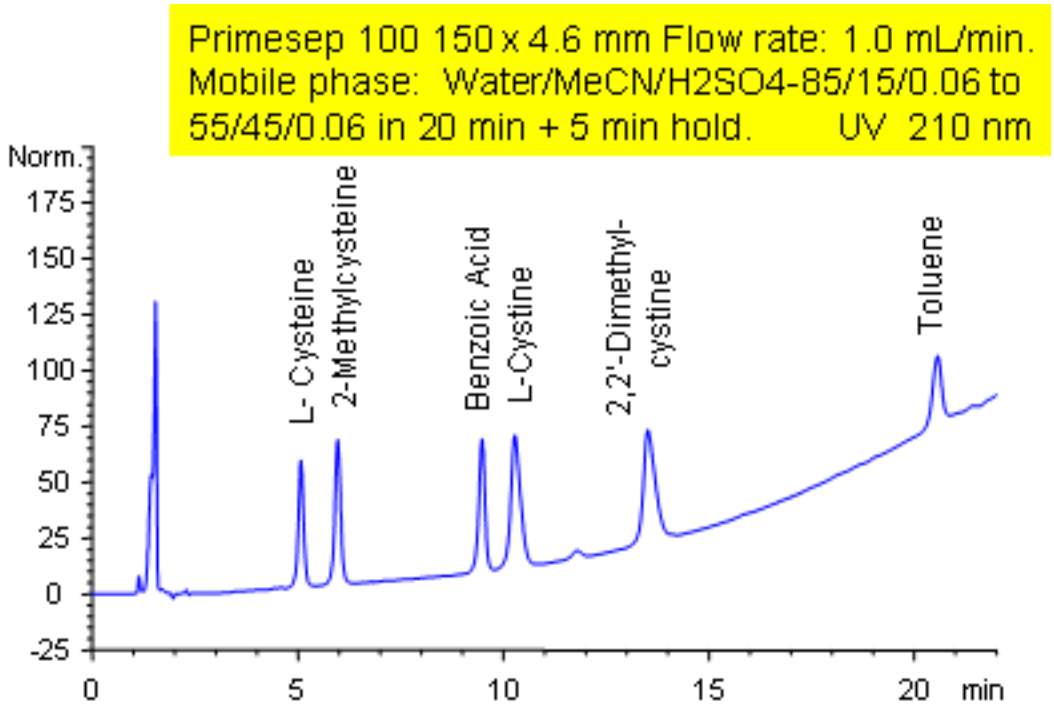
Hydrophobic and Hydrophilic Compound Separation



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

Column	Primesep 100, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	H2SO4
Flow Rate	1.0 mL/min
Detection	UV 210 nm

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