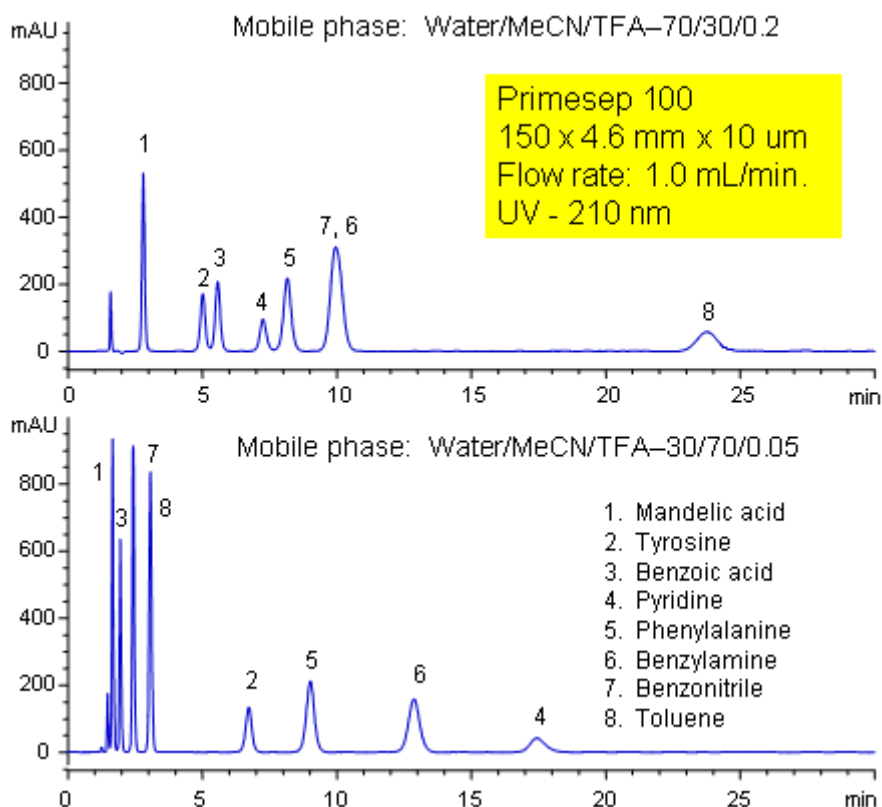


# Complex Mixture of Acids, Bases, Amino Acids, and Neutral Compounds

<https://sielc.com/Application-Complex-Mixture-of-Acids-Bases-Amino-Acids-and-Neutral-Compounds>

## Chromatogram



## Description

Primesep 100 separates a mixture of amino acids (tyrosine, phenylalanine), organic acids (benzoic acid, mandelic acid), amines (benzylamine, pyridine), and neutrals (benzonitrile, toluene) in one HPLC run by combining reversed-phase, cation-exchange, and polar interactions. The method is tunable and peak order can be changed significantly by adjusting acetonitrile and trifluoroacetic acid concentrations. The separation method uses a mobile phase mixture of water, acetonitrile (MeCN, ACN) and trifluoroacetic acid (TFA) and compatible with UV, mass spec (LC/MS) and evaporative light scattering (ELSD) detection.

## Method Parameters

Mobile Phase	MeCN/H <sub>2</sub> O – 30/70%
Buffer	TFA – 0.2
Flow Rate	1.0 ml/min
Detection	UV, 210 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
Analyzing Compounds	Tyrosine, phenylalanine, Benzoic acid, mandelic acid, Benzylamine, Pyridine, Benzonitrile, Toluene

## HPLC Column Used

**Primesep 100, 4.6x250 mm, 5 µm, 100A**

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