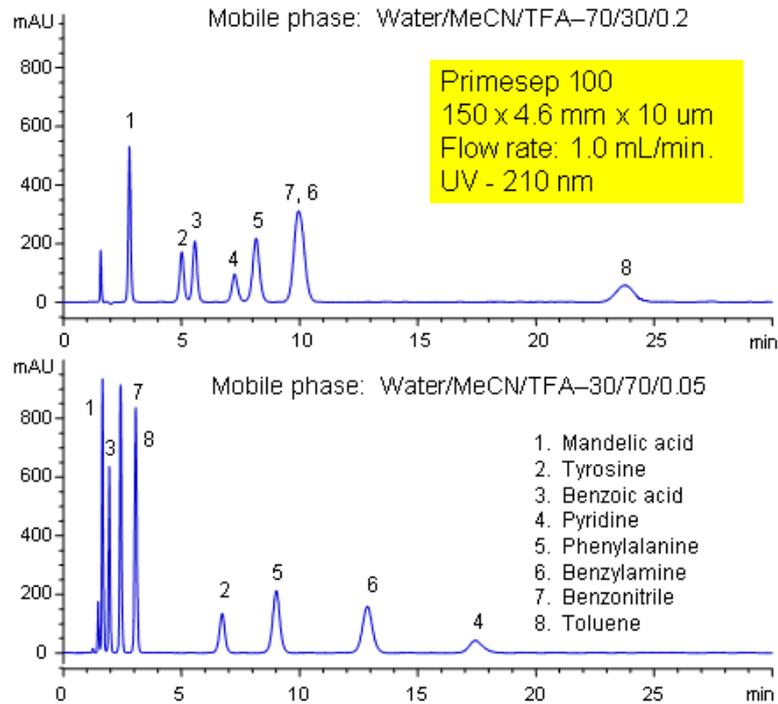


## Complex Mixture of Acids, Bases, Amino Acids, and Neutral Compounds



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

<b>Column</b>	Primesep 100, 4.6x250 mm, 5 $\mu$ m, 100 $\text{\AA}$
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 30/70%
<b>Buffer</b>	TFA – 0.2
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 210 nm

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