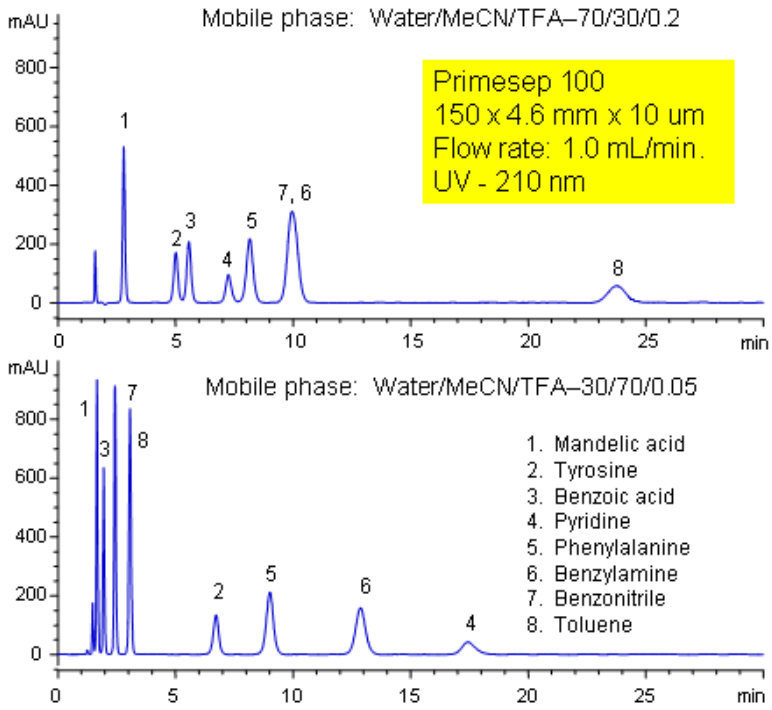
Complex Mixture of Acids, Bases, Amino Acids, and Neutral Compounds



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 trifluoracetic acid (TFA) and compatible with UV, mass spec (LC/MS) and evaporative light scattering (ELSD) detection.

Method Parameters

Column	Primesep 100, 4.6×250 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 30/70%
Buffer	TFA – 0.2
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

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

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