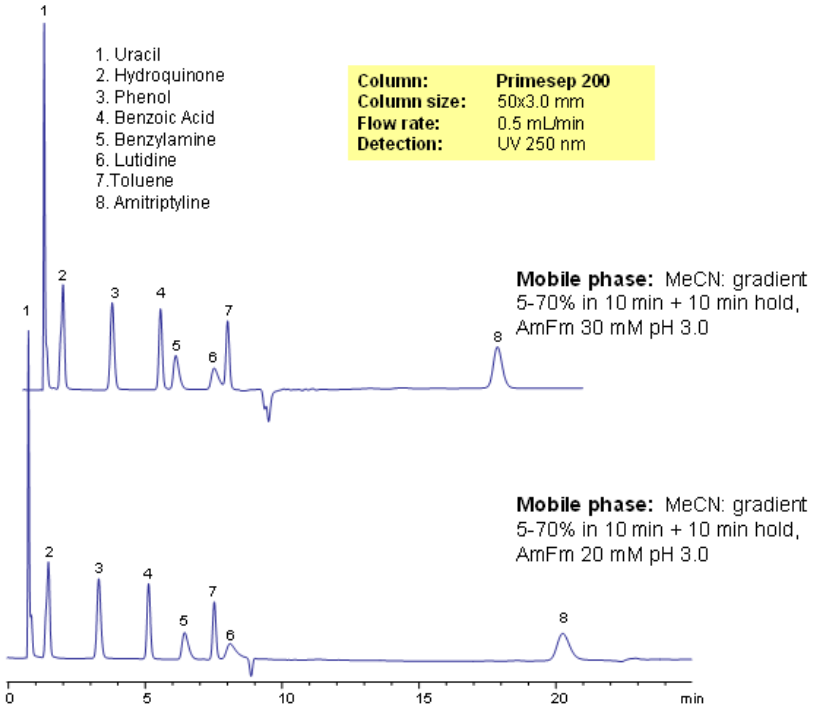
HPLC Separation of Acidic, Basic, and Neutral Compounds on Primesep 200



Primesep 100 and Primesep 200 columns can be used as a universal column for analysis of wide range of compounds. These mixed-mode reversed-phase ion-exchange HPLC columns can provide a valuable alternative to traditional reversed-phase column. Amines, amino acids, quaternary amines, and various zwitter-ions can be analyzed along with hydrophobic compounds and organic and inorganic counter-ions. In this application, 8 compounds with different hydrophobic, hydrophilic, basic and acidic properties are separated based on their properties. Primesep 100 column is a mixed-mode HPLC column with a C12 carbon chain and carboxylic acid on the surface with pKa of 1. Primesep 200 column is a mixed-mode HPLC column with a C12 carbon chain and carboxylic acid on the surface with pKa of 2. These columns can be used with 100% organic (ACN) and 100% aqueous mobile phases. This HPLC method can be adopted as a generic and robust approach for analysis of acidic, basic and neutral compounds within the same run.

Method Parameters

Column	Primesep 200, 3.0×50 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	AmFm pH3.0
Flow Rate	0.5 mL/min
Detection	UV, 250 nm

Quelle: https://sielc.com/Application-HPLC-Separation-of-Acidic-Basic-and-Neutral-Compounds-Primesep-200