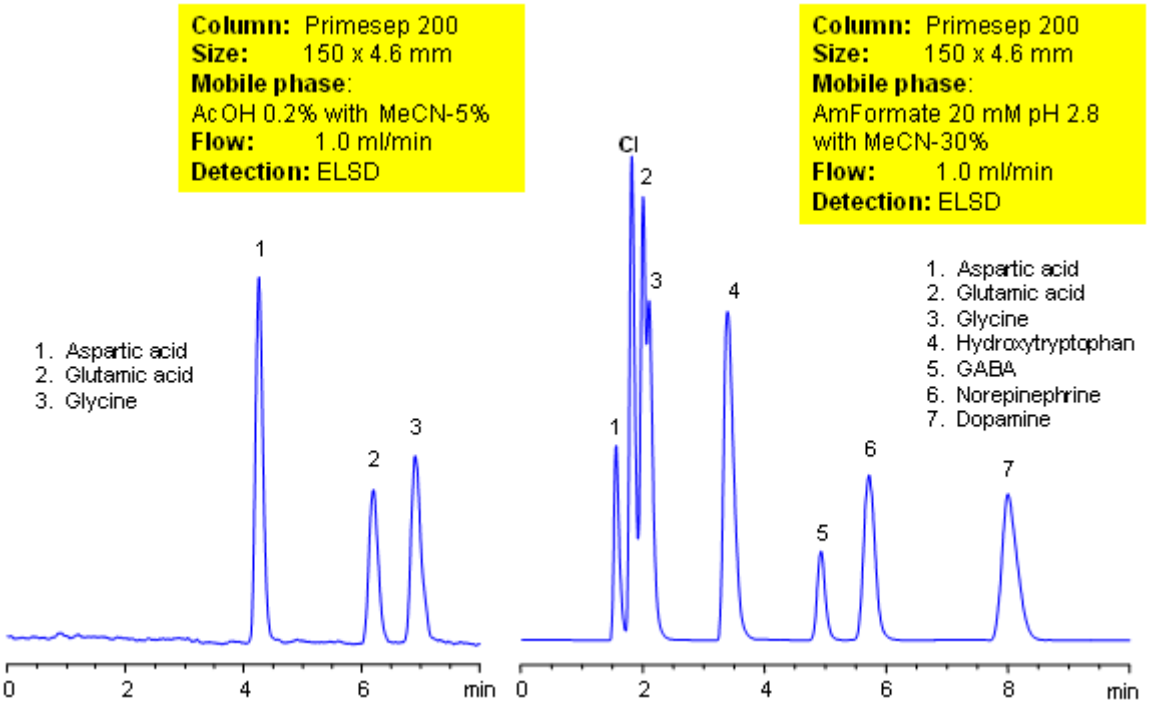
HPLC Separation of Polar Compounds

https://sielc.com/Application-HPLC-Separation-of-Polar-Compounds

Chromatogram



Description

The separation of amino acids, the building blocks of proteins, can be challenging to separate on a reverse-phase column due to their high polarity. Using a mixed-mode HPLC column, allows the separation of amino acids by cation-exchange and ion-exclusion mechanisms as well as hydrophobicity. Fine tuning of separation can be achieved with changes in organic concentration of the mobile phase as well as choice of buffer and pH.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	AcOH, AmFm
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Hormone
Analyzing Compounds	Aspartic acid, Glutaric acid, Glycine, Hydroxytriptophan, GABA, Norepinephrine, Dopamine

HPLC Column Used

Primesep 200, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →