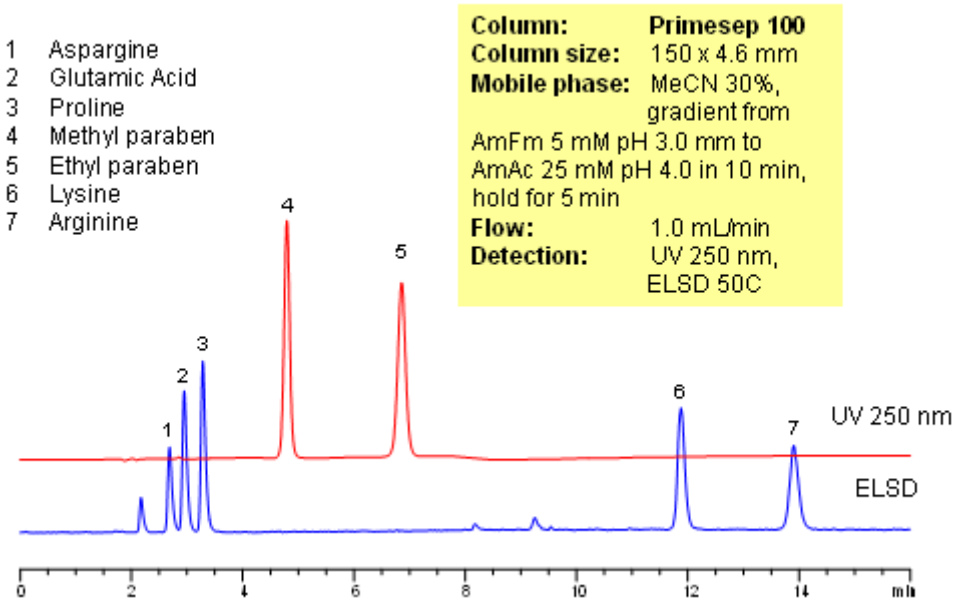
HPLC Analysis of Active Drug and Amino Acids in a Formulation

https://sielc.com/Application-HPLC-Analysis-of-Active-Drug-and-Amino-Acids-in-A-Formulation

Chromatogram



Description

Polar amino acids are very often used as components of vitamin and supplement composition. Analysis of such complex composition is a challenging task. In this application, 5 amino acids (asparagine, glutamic acid, proline and arginine) and two preservatives (methyl paraben and propyl paraben) are separated on a Primesep 100 reversed-phase cation-exchange column with LC/MS compatible mobile phase. Method does not require ion-pairing reagent in the mobile phase. Compounds are monitored by ELSD and UV. Method is validated for quantitation of underivatized amino acids in complex mixtures. The method is simple and robust and can be used for analysis of various vitamin formulations.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	AmFm
Flow Rate	1.0 ml/min
Detection	ELSD 50C, UV 250 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Glutamic acid, Aspargine, Proline, Lysine, Arginine, Methyl paraben, Propyl paraben

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →