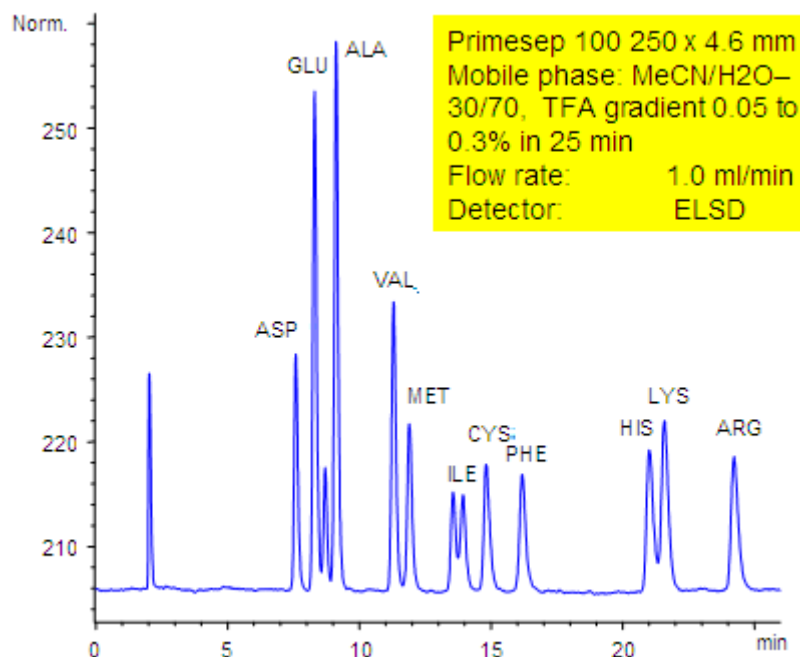


HPLC-ELSD Method for Analysis of Amino Acids on Primesep 100 Column

<https://sielc.com/Application-Amino-Acids-Analysis-in-Acid-Gradient-Condition>

Chromatogram



Description

11 underivatized amino acids (aspartic acid, glutamic acid, alanine, valine, methionine, isoleucine, cysteine, phenylalanine, histidine, lysine, and arginine) are separated by a Primesep 100 HPLC column by reversed-phase and ion-exchange mechanisms with LC/MS compatible conditions without the use of ion-pair reagents. The HPLC separation uses a TFA (trifluoroacetic acid) gradient in a mobile phase of water acetonitrile (MeCN, ACN with evaporative light scattering detection (ELSD).

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	TFA , gradient 0.05-0.3 % , 25 min
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Aspartic acid, Glutamic acid, Alanine, Valine, Methionine, Isoleucine, Cysteine, Phenylalanine, Histidine, Lysine, Arginine

HPLC Column Used

Primesep 100, 4.6×250 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](http://hplc-shop.de)