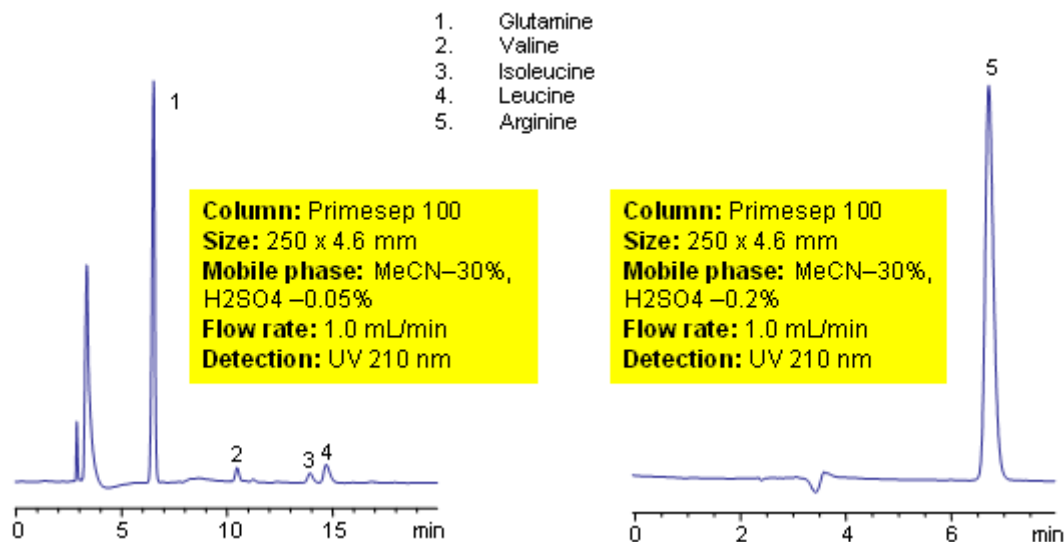


HPLC Separation of Amino Acids in Supplements Capsules

<https://sielc.com/Application-Amino-Acids-in-Supplements-Capsules>

Chromatogram



Description

Glutamine, valine, isoleucine, and leucine are baseline resolved in a dietary supplement with a mobile phase of acetonitrile, water, and sulfuric acid with ultraviolet (UV) detection at 210 nm on a Primesep 100 column. Increasing the sulfuric acid concentration allows elution of arginine. Primesep 100 separates underivatized amino acids and amines by combining reversed-phase and ion-exchange mechanisms. The HPLC separation uses a mobile phase of water, acetonitrile (MeCN, ACN), and sulfuric acid with ultraviolet (UV) detection at 210 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄
Flow Rate	1.0 ml/min
Detection	UV, 210 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
Analyzing Compounds	Arginine, Glutamine, L-Valine (Val/V), L-Isoleucine (Ile/I), L-Leucine (Leu/L)

HPLC Column Used

Primesep 100, 4.6x250 mm, 5 µm, 100A

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