

HOME

**PRODUCTS** 

TECHNOLOGY

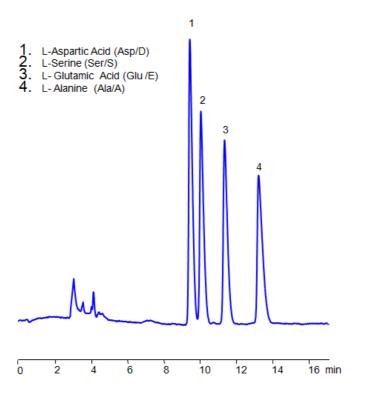
**APPLICATIONS** 

LITERATURE

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## Amino Acids, such as L-Aspartic Acid, L-Serine, L-Glutamic Acid, and L-Alanine on Primesep 100 Column

High Performance Liquid Chromatography (HPLC) Method for Analysis of Non-Essential Amino Acids on Primesep 100 by SIELC Technologies



Column: Column size:

Column part number: Mobile phase: Buffer:

Flow rate: UV detection: Primesep 100

 $4.6 \times 250$  mm,  $5 \mu m$ 100-46.250.0510 MeCN /H2O - 20/80%

H3PO4 - 0.1%1.0 mL/min 200 nm



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Column	Επιπεδεμ του, 4.0 χ 200 πππ, ο μπ, του Α
Mobile Phase	MeCN/H2O - 20/80%
Buffer	H3PO4 - 0.1%
Flow Rate	1.0 ml/min
Detection	UV, 200 nm

Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
Analyzing Compounds	L-Aspartic Acid (Asp/D), L-Serine (Ser/S), L-Glutamic Acid Glu/E), L-Alanine Ala/A)

Amino acids are the building blocks of proteins. Based on their dietary requirement, they are classified into essential and non-essential amino acids. Essential amino acids cannot be synthesized by the human body in sufficient quantities and must be obtained from the diet. Non-essential amino acids, on the other hand, can be synthesized by the body and are not dependent on dietary intake.

It's worth noting that while these amino acids are considered "non-essential" for adults under normal circumstances because the body can synthesize them, there are situations where some may become "conditionally essential." This means that under certain conditions like illness, stress, or trauma, the body might not produce them in sufficient quantities, and dietary intake becomes necessary. Arginine, for instance, is considered conditionally essential, especially during periods of rapid growth, illness, or trauma.

Amino acids can be retained, separeted and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a phosphoric acid (H3PO4) as a buffer. This analysis method can be detected in the UV regime at 200 nm.

## **Application Column**



Primesep 100

Column Diameter: 4.6 mm Column Length: 250 mm Particle Size: 5 µm Pore Size: 100 A

ADD TO CART

Application Analytes:

Alanine

Amino Acids

Aspartic Acid

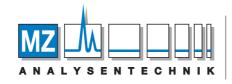
D-Alanine

**DL-Alanine** 

GLU (L-Glutamic acid)

Glutamic Acid

Serine



## **AUTHORIZED DISTRIBUTOR**

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