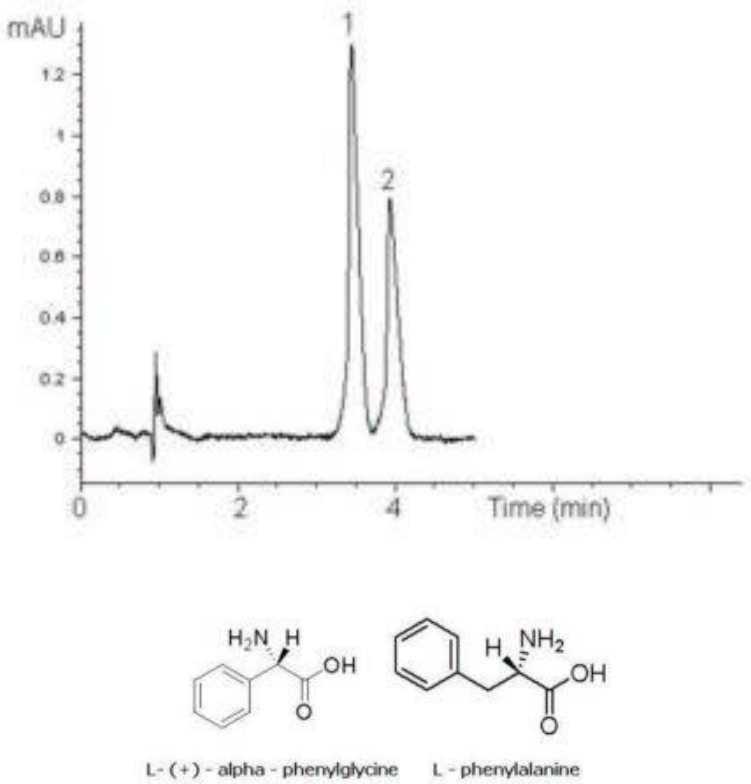
Phenylglycine and Phenylalanine Analyzed with HPLC - AppNote

Analysis using a Simple Mobile Phase.

In this Method two important amino acids: L-(+) alpha-phenylglycine and L-phenylalanine, were Separated.

C18 Columns used today which may be present in every Analytical Laboratory may not be able to Retain underivatized Amino Acids. They usually elute at or near the “void volume” with other polar compounds.



Peaks: 1. L-(+)-Alpha-Phenylglycine, 2. L-Phenylalanine

Method Conditions

Column: Cogent Silica-C™, 4 µm, 100 Å
Catalog No.: 40000-75P
Dimensions: 4.6 x 75 mm

Mobile Phase:

- A: DI Water / 0.1% Formic Acid

- B: Acetonitrile / 0.1% Formic Acid

Flow rate: 1.0 mL / minute
Detection: UV @ 254 nm
Injection vol.: 2 µL

Sample Preparation: 0.3 mg / mL of each sample dissolved in 50:50 Acetonitrile / DI Water / 0.5% Formic Acid.

t_0 : 0.85 minutes

Notes: *Alpha – amino acids are precursors for many important chemical entities (for example isoindolines), which are essential to the discovery of new drugs.*

Attachment: No 48 Phenylglycine & Phenylalanine Analyzed with HPLC pdf 0.2 Mb Download File

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