

Modern Amino Acid Analysis by quantitative ^{13}C -NMR

Profiling from a single analysis

Our state-of-the-art NMR spectroscopy delivers rapid, precise, and comprehensive analysis of amino acids in proteins and peptides, far surpassing traditional chromatographic methods. Whether in pharmaceuticals, food science, or cosmetics, our cutting-edge approach ensures unparalleled accuracy.

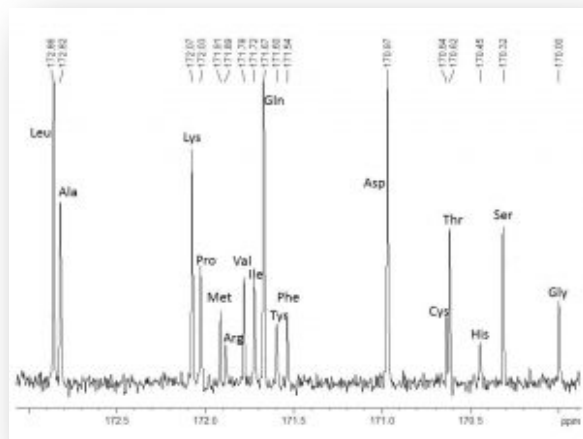


What We Analyze for You:

Alanine (Ala)	Lysine (Lys)
Arginine (Arg)	Methionine (Met)
Aspartic acid / Asparagine	Phenylalanine (Phe)
Cysteine (Cys)	Proline (Pro)
Glutamic acid / Glutamine	Serine (Ser)
Glycine (Gly)	Threonine (Thr)
Histidine (His)	Tyrosine (Tyr)
Leucine (Leu)	Valine (Val)
Isoleucine (Ile)	

Simple & Effective

- 1 Hydrolysis** Sample hydrolysis in DCI
- 2 Preparation** Evaporate and redissolve in D_2O
- 3 ^{13}C -NMR** Single quantitative ^{13}C NMR measurement
- 4 Evaluation** signal deconvolution & quantification



Why Choose Our NMR Service – Key Advantages Over Traditional Methods:

- ✓ **17 Amino acids in one measurement** – faster results due to only one sample prep. & measurement
- ✓ **Unmatched Accuracy** - Direct quantification through integral signal intensities
- ✓ **Minimal Sample Use** – Lower chemical consumption compared to conventional methods
- ✓ **Complementary structural insights** – ^1H - and 2D-NMR available for identity and sequence questions