

# Quality control of proteins - basis for special medical food - by post-column derivatization with ninhydrin



When the target population is unable to use ordinary diet or daily diet to meet their nutritional needs, special medical use formula food can play a nutritional support role as a nutritional supplement. In view of the specific metabolic state of different diseases, the formula food for special medical use has put forward special regulations on the corresponding nutrient content, which can better adapt to the specific disease state or the nutritional requirement of a certain stage of the disease, to provide targeted nutritional support for patients is an effective way for clinical nutritional support.

## Introduction

Formula Food for special medical use, referred to as "special medical food", is to meet the special needs of nutrition or diet for people with eating restriction, dyspepsia, metabolic disorder or specific disease state, a specially prepared formula.

It is necessary to analyze the content and quality of protein and whether its amino acid composition meets the needs of human body. Amino acid analyzer is a special instrument for analyzing amino acid in national standard method.

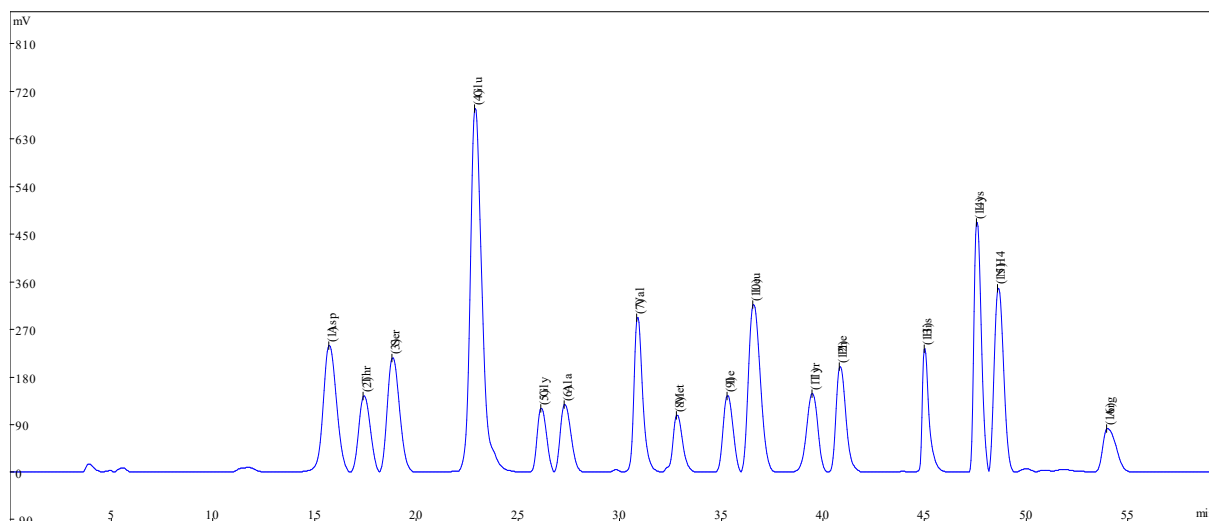


Figure 1: The amino acids contained in the acid hydrolysis samples were separated using a sodium cation exchange column and then derivatized with ninhydrin. The detection was performed at 440 nm and 570 nm. The concentrations of the individual amino acids were determined using a known concentration of a standard amino acid mixture.

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