

Abstract

This Bachelor's thesis deals with determination of amino acids enantiomers, namely alanine in the experimental part, by high performance liquid chromatography using chiral stationary phases based on teicoplanin.

The theoretical part is focused on summarizing the fundamental issue of chirality and chiral amino acids in foods, the characteristics of high-performance liquid chromatography, as one of the most appropriate methods to enantioseparation amino acids, and description of the methods of derivatization, which are used in determination of enantiomers of amino acids.

The experimental part deals with the separation of alanine enantiomers, with the choice of the best separation system for the separation and determination of D-and L-alanine in fruit juice.