Abstract

1. Novel microorganisms, their use and process for the production of L-α-amino acids.

2.1. N-5-Monosubstituted hydantoins can be converted to the enantiomerically pure L-α-amino acid by fermentation or enzymatically. The object consists of novel microorganisms which are easy to cultivate and afford high yields of L-α-amino acid from a variety of substrates.

2.2. The microorganisms DSM 7329 and 7330 are suitable for the production of L-α-amino acids from corresponding hydantoins or carbamoyl-α-amino acids. The conversion is preferably carried out with dormant microorganisms.

2.3. Production of various L-α-amino acids.