Novel microorganism, use thereof and process for the production of L-α-amino acids

Abstract

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

2.1 The known *Arthrobacters* DSM 7329 and DSM 7330 give rise to technically adequate specific activities in the conversion of D,L-5-monosubstituted hydantoins to L-α-amino acids only when an inducer is used (N3-IMH).

2.2 DSM 9771 is a mutant of DSM 7330 and was obtained under selective pressure. Its enzymatic activity is higher by a factor of 2.3 than that of its parent organism. In the presence of an inducer, this activity may be further increased by a factor of 2.7.

2.3 L-α-amino acids with elevated stereoselectivity and in quantitative yield.