ABSTRACT

Novel mutants of the formate dehydrogenase from Candida boidinii

The present invention relates to novel improved enzymes prepared by recombination, especially to rec-FDHs. Directed evolution has made it possible to generate catalytically more active and more stable muteins which can preferably be used in an industrial process for the preparation of e.g. amino acids.

The invention further relates to the nucleic acids coding for these enzymes, to vehicles containing these nucleic acids and to advantageous primers for the preparation of the nucleic acids by means of PCR.

The invention additionally relates to a process for the preparation of further improved rec-FDHs, and a method of screening more stable and/or more active dehydrogenases is claimed.

(FIG. 2)

G00002

162162

Key to Fig. 1

mittlere Inaktivierungstemperatur =

mean inactivating temperature [°C]