

Optimization of cultivation medium for the production of *Bacillus intermedius* 3-19 glutamyl endopeptidase

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Abstract

The effect of some components of cultivation medium on the growth of the streptomycin-resistant *Bacillus intermedius* strain 3-19 and on the production of glutamyl endopeptidase was investigated using factorial experimental design, which allowed the concentrations of peptone and inorganic phosphate to be optimized for the maximum production of the enzyme. Experiments with different peptones and casamino acids showed that the enzyme production is maximum with peptone 3 of plant origin. The addition of casamino acids or amino acids to the peptone-containing cultivation medium inhibited the production of glutamyl endopeptidase. © 2002 MAIK "Nauka/Interperiodica".

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Keywords

Amino acids, Biosynthesis, Factorial experimental design, Glutamyl endopeptidase, Spore-forming bacteria