

Production and application of extracellular hydrolases from bacilli

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Abstract

The production of extracellular alkaline phosphatase and serine proteinase from various antibiotic resistant strains *Bacillus intermedius* was investigated. The strains with high level of enzyme secretion were selected and the conditions for the optimal enzyme production and their further isolation were studied. The purification of phosphatase and proteinase from culture medium *B.intermedius* 3-19 was developed using the high performance liquid chromatography on Mono S column and affinity chromatography on Bacitracin-Sepharose respectively. Some properties and substrate specificity of purified enzymes were studied.
