On the study of chitinase inhibitor produced by microorganism

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ABSTRACT

After screening and identification, we isolated a chitinase inhibitor producing strain, from dinner set, which was named as Bacillus cereus S129. In studying the fermentation medium, results showed that, 3.5% SCSP, 0.1% K2HPO4, 0.1% MgSO4.7H2O, 0.1% (NH4)2SO4, 0.4% ZnSO4 was the optimum medium composition, and, pH 6.0, 37 , 72hrs, 180rpm was the optimum cultural condition. The chitinase inhibitor was purified from the fermentation broth of B. cereus S129 by ammonium sulfate precipitation, followed by DEAE- Sepharose CL-6B chromatoraphy. The optimum pH, pH stability, optimum temperature and thermal stability of chitinase inhibitor were 8,5-7, 50 ,,respectively. When using Micrococcus Iysodeikticus as substrate, the chitinase inhibitor also showed inhibitor activity to the enzyme.

Keywords:幾丁質脢;溶菌脢;幾丁質脢抑制劑

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