

Short Communication

GROWTH, AND PRESERVATION OF BACILLUS THURINGIENSIS FROM THURICIDE HP IN IRAN

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Strain HD - 1 of *Bacillus Thuringiensis* Berliner var. Kurs-taki', (serotype IIIa and IIIb) was isolated from Thuricide Hp (Sandos INC. Crop protection. San Diego, Calif. 92/08, USA) and activated in tripticase soy broth (TSB) for 24 hrs at 30°C. The isolated bacterium was grown in a seed medium - containing: Corn meal (5g), yeast autolysate (10 ml), P o4HK2 (4g), distilled water (1000 ml), PH 7.0-7.2, for 8 hrs at room temperature (1000 ml - stationary culture). The seed culture was transferred to a fermentation medium containing: Dextrose (10g), corn meal (4.5g), yeast autolysate (12 ml), Po4HK2 (3.5 g), NaOH (0.43g), Cac12 (0.1 g), Distiled water (1000 ml), PH 7.0, and grown at room temperature for 16 hrs (10 liter stationary culture, aerated with sterile air). In this medium, sporulation and crystal formation occurred after 6 and 8 hrs respectively which corresponds to the logarithmic phase of the growth. The culture was allowed to grow for 16-hrs, at which the maximum yield occurred, and the resulting bacterial population contained spores and crystals characteristic of the pathogenic strain. The culture was subsequently mixed a carrier medium. After 3 months the bacterium has remained viable in the carrier. Biological activity of the product is under investigation.

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