

## The effects of bio-preparation Antibac-Uz on *Helicoverpa armigera* Hb

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Cotton is one of the most important crop including export sectors of agriculture of Uzbekistan. For stable production of required amount of raw cotton, along with high agro-technics utmost importance should be given to science-based protection against pests of cotton like cotton bollworm (*Helicoverpa armigera* Hb.) one of the main pests of this crop. During the grown season cotton scoop develops in large quantities in the cotton fields, causing serious damage to crops of cotton, reducing the technological parameters of cotton fiber and worsen the quality of the seed. A lot of work was conducted for the implementation of the integrated plant protection system in the Republic of Uzbekistan, the main element of which was the biological control. This method is the most effective element that allows saving the environment from pollution by pesticides and increase yields of agricultural crops. This article presents the results of experiments on cotton held in the field service system selection method during the years 2013-2014. On the basis of obtained results of the microbiological product manufactured on the basis of a strain of *Bacillus thuringiensis* var. *thuringiensis* against younger ages of cotton bollworm in the application of 5.0 l/ha, with the working fluid flow rate of 200 l/ha of treated areas biological efficacy against I generation was found -79.8%, II generation-80.4% and III generation 83.6%. This drug proved to be quite an effective tool in the fight against cotton bollworm in cotton younger ages. Conducted two-year studies provide us such grounds to believe that the biological product Antibac-Uz of bacterial origin, as well as its producents can be used in the fight against cotton bollworm. Antibac-Uz of bio-preparation in rates of 4.5-5.0 l/ha has never negative effect on the number of natural population of entomophagous on cotton crops.

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