The invention relates to microbiology and biotechnology, and can be used in agriculture for the control of *Lymantria* genus lepidopterans.

The strain of *Bacillus thuringiensis* subsp. *kurstaki* bacteria, isolated from natural environment, is deposited in the National Collection of Nonpathogenic Microorganisms with the number CNMN-BB-04 and can be used for the production of bioinsecticides.

The strain of *Bacillus thuringiensis* subsp. *kurstaki* CNMN-BB-04 bacteria exhibits pronounced insecticidal activity against *Lymantria* genus lepidopterans.

Claims: 1