



# BIO-T PLUS™

BIOLOGICAL INSECTICIDE  
A Larvicide for Pest Control in Agriculture

BIO T PLUS™ is a biological insecticide formulated from a strain of *Bacillus thuringiensis* var *Kurstaki* which controls Lepidoptera larvae in vegetables, field crops, orchards and forests.

The product, based on *Bacillus thuringiensis* var. *kurstaki*, is produced using a novel fermentation process. It is supplied as a wettable powder.

- BIO-T Plus™ is a water-dispersible concentrate. It contains delta-endotoxin crystals and viable spores of *Bacillus thuringiensis* var. *kurstaki*. It is used for pest control in Beans, Forestry, Fruit orchards Citrus, Dates, Tomatoes, Cabbages, Lettuce, Maize, Melons, Cotton etc.

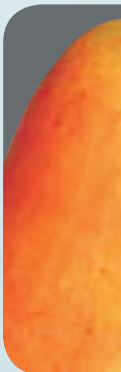
- BIO-T Plus™ is a selective BIO insecticide. It is selectively toxic to larvae of Lepidopteran

Army Worms and Lepidoptera spp. species like *Boarmia selenaria* (Avocado Loopers), *Plusia chalcites* (Groundnut Semi-Loopers), *Helicoverpa (Heliothis) armigera* (American Boll Worms), *Thaumetopoea sp., wilkinsoni* (Pine Processionary Moths), *Chyptoblabes gnidiella* (Honedew Moths), *Lobesia botrana* (European Grape Berry Moths, Gypsy Moths and other species

- BIO-T Plus™ is exempted from residue tolerance requirement and can be applied up to the day of harvest. It provides a unique opportunity for microbial control of larvae without harmful effects on humans, domestic animals, wildlife and beneficial insects.



- BIO-T Plus™ is formulated for prolonged activity and good storage stability. Shelf life is more than one year when stored in a cool place at temperatures up to 28C. Longer shelf life can be maintained in refrigerated storage.





## TECHNICAL INFORMATION

- BIO-T Plus™ is a fine powder with tiny particles of *Bacillus thuringiensis* var *kurstaki*.
- Potency: 36,000 International Units per milligram (IU/ mg)
- Composition:  $9 \times 10^7$  spores/mg *Bacillus thuringiensis* var *kurstaki*, Serotype H-3a, 3b Strain Z-52
- BIO-T Plus™ is ready for use on dilution with water in the sprayer vessel. Application is by either aerial (low or ultra-low volume) or ground (mechanical or manual) spraying.
- The formulation contains an adjuvant and UV protectant.

## DOSE RATE

The rate of application should be adjusted to pest concentration and larval age. Highest efficacy is achieved on larvae up to 15mm. Typical dose rates of BIO-T Plus are shown in the table below:

CROPS	PESTS	APPLICATION RATE (kg / Ha)	DOSAGE RATE (g / 20 Lt of water)
French Beans	<i>Heliothis armigera</i> ( <i>Helicoverpa amigera</i> )	0.5-1.0 Kg / Ha	10-20 g per 20 liter of water
Vegetables, Peas, Brassicas, Maize	White butterfly ( <i>pieris</i> sp.), Fruit worms ( <i>Helicoverpa</i> sp., <i>Ostrinia</i> sp.), other Caterpillars	0.5-1.0 Kg / Ha	10-20 g per 20 liter of water
Passion fruits, Avocados, Mango	Lepidoptera pests, <i>Pieris</i> sp., False colding moths	0.5-1.0 Kg / Ha	10-20 g per 20 liter of water

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