



BIODALIA
Microbiological Technologie

BIO T PLUS

BIO-T PLUS is a bio-insecticide for Lepidoptera larvae control in field crops, orchards, and forests. The product, based on *Bacillus thuringiensis* var. *kurstaki*, is produced using a novel fermentation process by BIODALIA MICROBIOLOGICAL TECHNOLOGIES. It is supplied as a liquid concentrate formulation and is applied by ground or aerial spray to infected crops.



- 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 avocados, pine and oak forests, grapes, pears, almonds, apricots, plums, peaches, citrus, persimmons, dates, tomatoes, cabbage, beans, melons, cotton, etc.
- BIO-T Plus is a selective insecticide. It is selectively toxic to larvae of Lepidopteron species like *Boarmia selenaria* (Avocado looper), *Plusia chalcites* (Groundnut semi-looper), *Helicoverpa (Heliothis) armigera* (American bollworm), *Thaumetopoea wilkinsoni* (Pine processionary moth), *Chyptoblabs gnidiella* (Honeydew moth), *Lobesia (Polychrosis) botrana* (European grape berry moth), Gypsy moth, 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 provides rapid knockdown, usually between 1–24 hours, allowing quick evaluation of efficacy.
- BIO-T Plus is formulated for prolonged field activity and good storage stability. Shelf life is more than one year when stored in a cool place at temperatures up to 28°C. Longer shelf life can be maintained in refrigerated storage.



TECHNICAL INFORMATION

- BIO-T Plus is a liquid concentrate of *Bacillus thuringiensis* var. *kurstaki*.
- Potency: 16000 International Units per milligram (IU/ mg)
- BIO-T Plus is ready for use on dilution with water in the sprayer vessel. Application is either by aerial (low or ultra-low volume) or ground (mechanical or manual) spraying.
- The formulation contains an adjuvant and UV protectant.
- BIO-T Plus is a light brown viscous liquid with a typical odor.

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:

Crop	Pest	Dose rate ml/1000 m ² or Rate (%)	Spray volume Liter/dun.
Avocado	Avocado looper	1000	Ground: 200
Tomato	Plusia, Heliothis	250	8-20
Vineyards	Lobesia botrana Cryptoblabes gnidiella (Milliere)	0.3	100
Pine forests	Pine Processionary moth	0.2-0.3	Air: 3-5 Ground: 100-200
Persimmon	Cryptoblabes gnidiella (Milliere)	0.375	180-200

