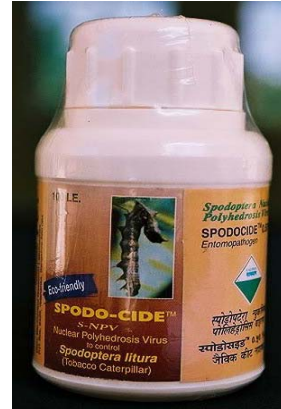


Heli-Cide™ & Spodo-Cide™

Nuclear Polyhedrosis Virus (NPV) for Control of
Helicoverpa armigera & *Spodoptera litura*



Nuclear Polyhedrosis Viruses (NPVs) are naturally occurring, species-specific microbes that are capable of causing fatal infections in insects.

Larvae ingest the virus while feeding and fully-grown larvae killed due to NPV infection can easily be distinguished since they hang with their head-down, holding on with the abdominal pro-legs. The viral particles oozing out as milky white fluid from the dead larvae (due to the rupturing of the body wall) help spread the infection.

Heli-Cide™ & Spodo-Cide™

Superior and virulent strains of NPVs are produced at BCRL at its modern facilities, for the management of American Bollworm (Heli-Cide™) and Tobacco Caterpillar (Spodo-Cide™).

Liquid formulations of NPVs for the above two pests are available in 100ml bottles, with a minimum of 1×10^9 POBs (Polyhedral Occluded Bodies or viral particles) per ml. Both formulations are registered with Central Insecticides Board (CIB), Govt. of India.

Heli-Cide™ and Spodo-Cide™ are useful for management of *Helicoverpa armigera* and *Spodoptera litura* on different crops such as cotton, pigeonpea, chickpea, tomato, field bean, groundnut, chilli, ornamentals, etc.

Recommendation : NPV of the target pest may be mixed with water and sprayed on crops, preferably in the evening hours. A minimum dosage of 100ml is recommended per acre. Add feeding stimulant (jaggery 1g/litre), sticking agent (liquid soap 0.5ml/litre) and UV protectant (fabric whitener 1ml/litre) of the spray solution for better results. For best results, apply NPV when larvae are in their early stages and highly susceptible.

Advantages

- NPVs can be applied using high volume sprayers, similar to those used for chemical pesticides
- They are environment-friendly and safe to non-target species.
- Safe to the applicator : no need for protective clothing or equipment during application
- Compatible with chemical pesticides

Working in Collaboration with Nature

A Quality Bio-Pesticide from Pest Control (India) Private Limited
PCI - India's First and Largest Pest Management Company.

PEST CONTROL (INDIA) PRIVATE LIMITED

Established 1954
Over 80 establishments nationwide

Division :
Bio-Control Research Laboratories (BCRL)

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