

NEM-TEC HB

Heterorhabditis bacteriophora

Heterorhabditis bacteriophora manages pest insects by entering their bodies and killing them through an entomopathogenic process.

Description

NEM-TEC HB contains third stage infective juveniles (J3) of *Heterorhabditis bacteriophora* Isolate DDT F27 in an inert carrier. **NEM-TEC HB** is a biological insecticide containing a naturally occurring beneficial entomopathogenic nematode used to manage beetles, sciaridflies, cutworms, fungus gnats and white grubs.

Life cycle and action

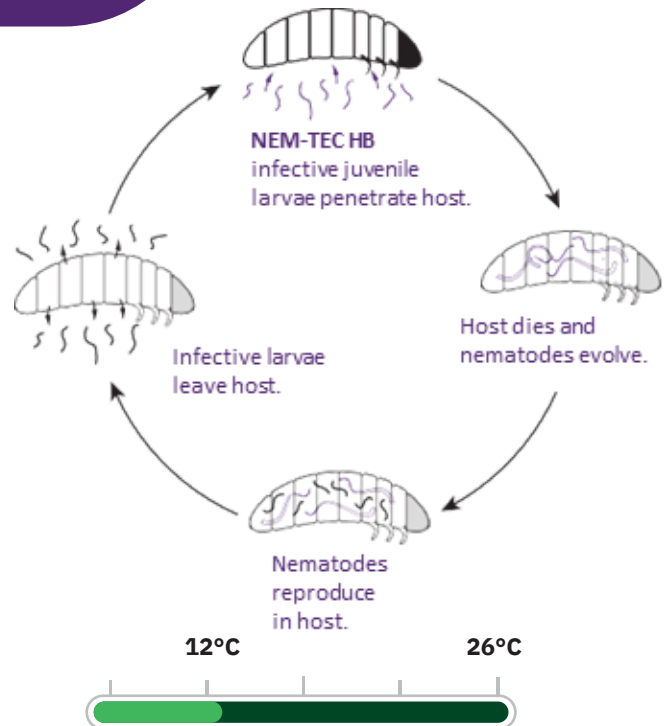
The infective third larval stage nematodes, which are 0.6-0.8mm, aggressively search for their prey and enter through natural body openings. Once inside the insect, the nematodes release symbiotic bacteria which are lethal to their hosts, then within 24 hours. The nematodes evolve to the next stage, feed on the dead insect, multiply and move out to find new hosts to infect. Parasitized larvae will change to a reddish-brown colour.

Target pests and crops

Heterorhabditis bacteriophora Isolate DDT F27

mainly targets:

- Beetles
- Fungus gnats
- White grubs
- Sciarid flies
- Cutworms



most effectively when temperatures are between 12°C and 26°C.

Introduction method

- **NEM-TEC HB** may be applied as a soil drench using standard irrigation equipment or by any standard method used in pesticide application.
- Mix the required amount of the water soluble product with water (12- 26°C) and stir well to form a uniform suspension. Apply using drip irrigation or standard high volume spray equipment at a minimum water rate of 1000 litres per Ha. Use a maximum pressure of 5 bars and spray nozzles of at least 0.5 mm.
- All filters must be removed to avoid blockage.
- Applications should be done early morning or late evening on damp soil with for maximum target reach, ensure continuous mixing during application. Irrigate immediately after application in case of soil drench. Use the entire package content.
- Although **NEM-TEC HB** is compatible with most fungicides and insecticides, tank mixing is not recommended.
- Simultaneous use of nematicide must be avoided.

Insectec is a leader in the production of natural enemies and the implementation thereof in an integrated management system.

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NEM-TEC HB

Heterorhabditis bacteriophora

Rate schedule

	Rate/Ha*	Interval (days)	PHI & REI
Preventative	2.0bn	30	0
Light Curative	2.0bn	14	
Heavy Curative	2.5bn	7	
	When pest pop. reduces, reverts to preventative.		

* Infective juveniles/Ha

Advantages of NEM-TEC HB

- Obligate parasites of a wide range of insect pests
- No resistance development to **NEM-TEC HB**
- Safe to the environment, beneficial organisms and applicators
- No re-entry and no PHI period required
- Reproduce rapidly once they find the hosts
- The nematode is not parasitic to the plant
- Moves easily with soil water in search of new hosts

IPM Advice

Before introducing **NEM-TEC HB** to your crop it is important that the plant is clean of negative chemical residues. Please consult your Insectec Field Advisor for any enquire.

Storage

Storage temp.	4-6 °C
Conditions	Dark
Max storage time	3 Months



Do not freeze. Store horizontally in original unopened container.

Packaging

Beneficial nematodes as packed
Quantity
250,000,000

Disclaimer

The success of natural enemies is affected by many factors including initial pest population, climate and chemical residues.