

NEMATECH H®

NEMATECH H® is a biological insecticide containing infective juveniles of *Heterorhabditis bacteriophora* (isolate DDT- F27) in an inert carrier for the control of White grubs, cutworms, weevils and other soil dwelling insects in the field or greenhouse.

Appearance:

Third stage larvae (Juvenile 3); 0.6 – 0.8 mm in size

Mode of Action.

The infective juveniles move through soil in search of hosts. Once a host is encountered, the nematodes enter through natural openings or use their dorsal tooth or hook to break the outer cuticle of small, fragile insects to allow the juvenile to enter. Once the infective juveniles are in the host insect, they begin development. Their alimentary canal becomes functional and they release symbiotic bacteria to multiply in the insect. These bacteria are consumed and digested by the developing nematodes. The bacteria kill the host, usually within 24-48 hours. Nematodes feed on the bacteria and host remains, and each infective juvenile develops into a hermaphroditic female. When infective juveniles leave the host, they move around in the soil, searching for a new host to infect. Soil texture, moisture, and temperature all affect dispersal and infection.

Preparation and Application.

Mix the required amount of the water soluble product with water (15 – 20°C) and stir well to form a uniform suspension. Apply to the garden using a watering can and onto larger areas 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 for maximum target reach, ensure continuous agitation during application. Irrigate immediately after application in case of soil drench. Use the entire package content.

Rate and Frequency of application.

Apply 2.0 - 2.5 billion Juveniles of *Heterorhabditis bacteriophora* per hectare depending on pest pressure.
Frequency of Application: Depending on the pest pressure NEMATECH H® can be applied between 2-3 times every 5 –14 days apart. When the pest pressure is high apply three times one week apart. When the pressure is low apply once every two weeks.
Best results will be achieved when NEMATECH® H is applied just before seeds germinate.

Storage conditions and shelf-life:

Store and transport at in the dark at 6 -12⁰ C do not freeze. Maximum storage time in original unopened container is 3 months from date of manufacture.

Compatibility:

Although NEMATECH H® is compatible with most fungicides and insecticides tank mixing is not recommended. Simultaneous use of Nematicides must be avoided.

Packaging:

NEMATECH H® is packed in a 1.2 litre container with 250 million infective juveniles (third stage) in an inert carrier.