Paecilomyces Lilacinus Nematode Biocontrol Agent

Paecilomyces lilacinus is an endoparasitic fungus used as a natural enemy of plant-parasitic nematodes. It parasitizes worm eggs and infects larvae and female worms, significantly reducing nematode populations in crops.

Product Overview

Natural Nematode Control

Paecilomyces lilacinus is a powerful endoparasitic fungus designed to combat plant-parasitic nematodes. By parasitizing nematode eggs, larvae, and females, this biocontrol agent significantly reduces root-knot, cyst, and stem nematode populations. Beyond pest control, it promotes plant health by producing growth-stimulating compounds and aiding in nutrient availability.

Mechanism of Action

Primary Functions

- Parasitizes nematode eggs, larvae, and females
- Produces chitinase, cell lyase, glucanase, and silk protease
- Inhibits nematode invasion
- Promotes root growth and seed germination
- Degrades chemical polymers and insoluble phosphates

Target Pests	Root-knot nematodes, Cyst nematodes, Stem nematodes

Technical Properties

Formulation Type

Wettable powder

Environmental Benefits

- Promotes dissolution of insoluble phosphates
- Decomposes chemical polymers
- Reduces reliance on chemical nematicides