



Biological Control

Nemasys®
Biopesticide for the control of Sciarids flys

Nemasys® L
Biopesticide for the control of Black Vine

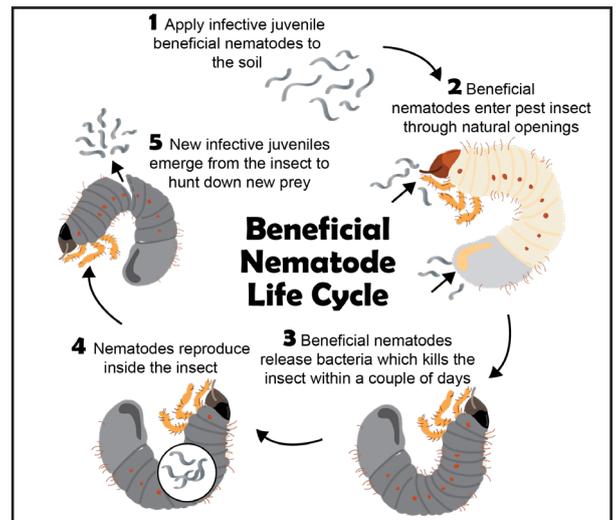
Nemaslug®
Biopesticide for the control of Slugs

Nemasys® F
Biopesticide for the control for Western Flower Thrips and Leafminer

Nemasys

What are Nematodes?

Nematodes are simple roundworms. Colourless, unsegmented, nematodes may be free living, predaceous or parasitic. There are 80,000 of naturally occurring nematode species in the soil. Some feed on plants, some on animals but the beneficial nematodes feed on insects. A pest's naturally occurring enemy (a strain of nematode) is introduced into the soil, where it travels through the soil on a thin film of water that coats soil particles. After a single nematode finds an insect the nematode enters it via the insect's natural openings where it releases a toxin and kills the host within 24 - 48 hours. The nematodes reproduce as the pest's body is broken down and further generations of infective nematodes move on to find their prey. A nematode's life cycle can be seen to the right.



The Cycle of the Black Vine Weevil

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
												Adults
												Pupae
												Eggs
												Larvae
												Treatment Periods

Nemasys®	
Code	Description
NEM50	NEMASYS M MUSH.BIO. CTRL (150) Pack Size 150 million
<p>Adult Sciarids are small dark flies (3-5 mm) with long antennae. Adult flies lay eggs in the soil which hatch within 2-3 days. The emerging larvae develop over a 2-3 week period and measure up to 5 mm. They have a translucent body and a distinctive black head. The larvae pupate in the compost and emerge as adult flies three days later. Adult Sciarid flies carry fungal spores from plant to plant and in doing so spread root diseases like Pythium and Phytophthora. The larvae can be just as destructive causing damage by directly attacking young roots during the fragile propagation period. Nematodes can be dispersed via overhead spray lines.</p>	



Nemasys® L	
Code	Description
NEML & NEML250	NEMASYS L STANDARD Pack Size 50 & 250 million
<p>Black Vine Weevil is one of the most serious insect pests of the nursery stock industry. Adult Vine Weevil is dull and black with patches of tiny yellow bristles. They are only active at night and are seldom seen. The larvae burrow deep into the compost and feed on fine roots. As the larva grows they attack progressively larger roots, corms, rhizomes and even strip bark from woody stems. The larvae are 'C' shaped with white shiny brown heads. The adult feed at night leaving tell-tale notches around the edges of leaves and flowers. However it is the root feeding larvae that cause the devastating damage. There is little indication of larvae damage until the plant is severely weakened and dying. Application of Nemasys L contain nematodes in their vigorously infectious stage. These aggressive organisms actively seek out Vine Weevil larvae and enter them through natural body openings. Once inside they release symbiotic bacteria, quickly killing the insect pest. Nematodes in Nemasys L have the added advantage of being low temperature tolerate allowing applications to be made when ever the pest is active.</p>	



Nemaslug®	
Code	Description
NEMASLUG	Nemaslug Pack Size 12, 30 & 250 million
<p>Slugs are one of the most widely known pests of cultivated plants. They attack a wide variety of plants by feeding on seeds, leaves, stems, flowers and root structures. Although slugs are mostly seen on the surface of plants they can cause subterranean damage. It is here where the uniqueness of Nemaslug can be seen. Once applied to the soil the nematodes in Nemaslug actively seek out and attack the slugs on and below the surface. They invade the slug via the dorsal pore and once inside the nematodes release bacteria that stop the slug feeding within three days. The slug eventually dies underground while the nematodes live on and reproduce. Nemaslug is effective for up to six weeks allowing a single dose to protect most crops through the susceptible propagation or seedling growth stage. There are no harmful crop residues using this biological control method.</p>	



Nemasys® F	
Code	Description
NEMF	NEMASYS F 250 MILLION (Pack of 5)
<p>Adult Western Flower Thrips (WFT) are small, slender insects approximately 1-2 mm long. They lay their eggs onto the leaves, buds and petals of plant tissue. The pupae emerge into adults, which aggressively attack plants. Adult Thrips use their mouth parts to pierce plant cells and suck out their contents. The damaged plant cells collapse, resulting deformed plant growth, flower deformation, or silver patches and flecking on leaves. Female Thrips are responsible for the majority of the damage and are a year round problem in most gardens and nurseries.</p>	

