

Cold Tolerant

NemaTrident®CT



For the biological control of black vine weevil larvae (*Otiorhynchus sulcatus*) and pupae in soil or container-grown crops

NemaTrident®CT contains a cold tolerant naturally occurring beneficial entomopathogenic nematode, *Heterorhabditis downesi* (15%), inert ingredients (65%) and water (20%).

Available in bags of 50, 250 or 500 million *Heterorhabditis downesi* infective juveniles. The nematodes are formulated in a wettable powder, enclosed in a non-water-soluble pack.

NemaTrident®CT is safe, sustainable and can provide 90-100% efficacy for the effective control of black vine weevil larvae and pupae at temperatures as low as 8°C if applied with Nemaspreader® - making it the most effective and versatile product currently available.

Our unique Tri-Component System ensures maximum dispersal of infective juvenile nematodes within the soil and growing media which then go in search of larvae to penetrate and kill them.

Directions for Use

Application timing

NemaTrident®CT should be applied from the end of **March to the end of May** for the control of overwintering larvae and pupae, and from **August to mid-October** to target newly hatched L1 and L2 larvae which have developed from eggs laid in late spring.

For best results

- Use NemaTrident®CT with Nemaspreader® at recommended rate (1L/100 litre of water) for maximum efficacy.
- Apply nematodes when black vine weevil larvae are present in soil or soil growing media.
- Nematodes are susceptible to ultra-violet light and desiccation. Apply during early morning or late evening during low light levels. Do not apply in bright sunlight.
- The soil or growing media surface should be moist at the time of application and, if possible, irrigation before application will be beneficial.
- Apply nematodes at a time when the soil or growing media temperature is expected to be above 8°C for at least 3 - 6 hours per day.
- The entire pack contents must be used once opened.
- Remove all filters from nozzles on spraying equipment to avoid blockages.

Application rates

Crop / Substrates	Recommended rate
Soil	0.5 million nematodes per square metre
Pots, containers, growbags	10,000 nematodes per litre of potting growing media
Strawberry	25,000 nematodes per plant
Raspberry	30,000 nematodes per plant (20 litres of growing media)
Blueberry	75,000 nematodes per plant

Application directions

- Apply NemaTrident®CT as soon as possible after delivery.
- Apply the entire pack with recommended concentration of Nemaspreader®.
- Do not store for longer than 4 hours in tank.
- Do not exceed a pump pressure of 5 bars.
- Flush system with enough water to wash nematodes out of irrigation pipes.

Application

Ground spraying

- Clean the equipment with clean water before using NemaTrident®CT.
- Remove all fine filters in the tubing and at the nozzles.
- Only use nozzles with at least 0.8 mm diameter.
- Mix the nematodes into 10 litres of water.
- Rinse the pack since nematodes often cling to the packaging.
- Stir the stock solution until all lumps are dissolved.
- Add ¾ of required amount of water to the tank along with the required amount of Nemaspreader®.
- With the agitator running, add the required amount of NemaTrident®CT through the sieve.
- Add the remaining water and begin application of the nematodes; maintain agitation to avoid settlement of the nematodes until all the mixture has been applied.
- As soon as NemaTrident®CT is mixed with water and the Nemaspreader®, the entire spray solution should be used in a single application.

Irrigation equipment

- NemaTrident®CT can be applied through micro-irrigation (individual spaghetti tube), drip irrigation, or hand-held or motorised calibrated irrigation equipment.
- Irrigate prior to nematode application to moisten soil or growing media surface.
- Dissolve NemaTrident®CT in water and add it to a clean feeder tank. Agitate solution continuously during application to prevent nematodes from settling.
- After application, rinse feeder tank with clean water and inject into system.

Dipping

- Add one pack of 500 million in 800 litres of water and mix the solution thoroughly.
- Keep the NemaTrident®CT solution agitated by introducing compressed air.
- 800 litres will treat approx. 4,000 plants with fist-size root balls.

Drench application to containers

Add one pack of 500 million nematodes to 1,000 litres of water and evenly apply to the surface of potting media. Adjust volume accordingly for smaller or bigger pots as outlined in the drench mixing chart.

Mixing chart for drench application

Pot Ø(cm)	Pot volume (litres)	Drench/pot(ml)	Qty Pots /pack
10	0.5	10	100,000
12	0.8	16	62,500
14	1.5	30	33,333
	3	60	16,667
	5	100	10,000

Strawberry

Dipping of Strawberry plants

- Add one pack of 500 million nematodes to 80 litres of water containing the Nemaspreader® and mix solution thoroughly.
- One Strawberry plant requires approximately 2 millilitres of nematode solution.
- 80 litres of nematode solution will treat approximately 40,000 plants.

Drench application

- Drench 200 ml around the base of each plant or directly inject at the root zone.
- One pack of 500 million nematodes diluted in 4,000 litres of water containing Nemaspreader® will treat 20,000 plants.

Compatibility

NemaTrident®CT is compatible with most chemical fertilizers and pesticides. Only a few insecticides have a negative impact on NemaTrident®CT. For detailed information on compatibility please visit our website: www.bionema.com.

Storage

The product should be stored at 5 to 10°C to retain maximum efficacy (see expiration date on the package).

Precaution

- Keep away from children.
- Wash hands and face with clean water after handling.
- Do not freeze.

Safety

The active ingredient and the formulation of NemaTrident®CT are safe to users, consumers and the environment. There are no restrictions or safety instructions for the use of NemaTrident®CT.

Limitation of liability

Efficacy of nematodes can be influenced by many factors such as storage, method of application, water volume, soil or substrate moisture and pest density. Bionema Limited cannot be held responsible for any risks. Users should follow the product instructions and contact us for help. Liability is disclaimed for insufficient quality or possible damage arising from circumstances outside of our jurisdiction.

Contact

For further assistance and expert guidance please contact us using the details below.



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