



NemaTrident™ L



For biological control of leatherjackets, mole crickets and cutworms.

NemaTrident™L (Autumn) contains the infective juveniles of a naturally occurring beneficial entomopathogenic nematode (*Steinernema carpocapsae*). When applied with the Bionema approved Nemaspreader™, NemaTrident™L provides a highly effective system for controlling leatherjackets (*Tipula spp*), mole crickets (*Gryllotalpa gryllotalpa*), Cutworms and cutworms (*Agrotis spp*) helping to protect landscapes, golf courses, sports turf & amenity areas and vegetable plantations.

Active Ingredient: *Steinernema carpocapsae* 15%

Inert Ingredients: 65%

Water: 20%

Packs contain either, 250 or 500 million *S. carpocapsae* nematodes. The nematodes are formulated in a wettable powder, enclosed in a Non-Water-Soluble pack.

NemaTrident™L (Autumn) is safe, sustainable and can provide up to 99% efficacy for effective control of leatherjacket larvae at temperatures as low as 14°C - making it the most effective and versatile product currently available for combating the crane fly larvae commonly known as Leatherjackets.

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

Directions For Use

Application rates

Application Method	Application Volume	Application	Dose/ha	Pack size 50 million	Pack size 250 million	Pack size 500 million	Number of Applications
Turfgrass	1L/m ²	Curative	2.5 billion	100m ²	500m ²	1000m ²	2-3 at weekly intervals

Application timing

Leatherjackets (Autumn application)

NemaTrident™L (Autumn) should be applied in September, approximately 2-3 weeks after adult peak flying season to target young larvae (L1/L2). For additional control please see our other product NemaTrident™L (Spring) containing *Steinernema feltiae* which can also be used to control older instar larvae (L3/L4) from Spring to early summer.

Mole crickets

Apply NemaTrident™L from April to August, as soon as soil temperatures are above 14°C. NemaTrident™L is very efficient against adult mole crickets, but less efficient against young larvae. Therefore, the treatment needs to be repeated the following year.

Cutworms

Apply from June to August as soon as first larvae are detected. The infected cutworms will begin to die approximately 4 days after application.

For best results

- Use NemaTrident™L with Nemaspreader™, a multibranched penetrating surfactant which ensures the effective distribution and survival of beneficial nematodes into the soil profile.
- Apply NemaTrident™L when larvae are present and close to soil surface.
- 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 surface should be moist at the time of application and if possible irrigation before application will be beneficial.
- Apply nematodes at a time when soil temperature is expected to be over 14°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

Sports Turf & Landscape: 0.25-0.5 million nematodes per square meter (2.5-5.0 billion/ha).

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Application directions

NemaTrident™L can be applied using conventional spraying equipment or irrigation systems. Where available soil injection equipment can be used to accurately deliver the nematode solution to precise depths where larvae habitat. NemaTrident™L should only be applied to moist soil. Only use nozzles with at minimum diameter of 0.8mm. Pressure should not exceed 5 bar. Nematodes should be applied with at least 500-1000 litres of water per hectare. Combining nematodes with Nemaspreader™ will help the nematodes to disperse and move through the thatch layer and effectively penetrate the soil to search for and kill the chafer grubs feeding on the root systems.

Ground spraying

- Clean all equipment with clean water before using NemaTrident™L.
- Remove all fine filters in the tubing and at the nozzles.
- Use required nozzles with at least 0.8 mm diameter.
- Mix the nematode into 10 litres of water.
- Rinse the pack since nematodes often cling to the packaging.
- Stir the stock solution for 3-5 min until all lumps are dissolved.
- Add ¾ of the required amount of water to the 400-500 litres tank along with the required amount of Nemaspreader™.
- With the agitator running, add the required amount of NemaTrident™L through the sieve.
- Add the remaining water and begin application of the nematode maintaining agitation to avoid settlement of the nematodes until all the mixture has been applied.
- Irrigate with 1-2 liters of water per square meter after application to wash the nematodes off the grass or soil.
- As soon as NemaTrident™L is mixed with water and Nemaspreader™ the entire spray solution should be used in a single application. Do not store for longer than 4 hours in tank.

Compatibility

NemaTrident™L is compatible with most chemical fertilizers and pesticides. Only a few insecticides have a negative impact on NemaTrident™L. In these cases, apply NemaTrident™L 3 days earlier or 2 weeks later. For detailed information on compatibility please visit our website: www.bionema.com.

Storage

The product may be stored for 8-10 weeks at 5 to 10°C (see expiring date on the package).

Precaution

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

Safety

NemaTrident™L contains naturally occurring beneficial parasitic nematode and the formulation which are safe to users, consumers and the environment. There are no restrictions or safety instructions for the use of NemaTrident™L.

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 instruction 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 below.