



RhizoGuard

Contains live fungi and spores:

Purpureocillium lilacinus & *Verticillium chlamydosporium*
(Concentrate)



Naturally occurring fungi that promote plant growth and root resilience

RhizoGuard contains two strains of beneficial organisms capable of solubilising phosphorus in your soil and making it plant available. *P. lilacinum* and *V. chlamydosporium* are both beneficial fungi that colonise the root hairs of plants, improving overall root tolerance, resilience and indirectly increase nutrient uptake by competitive exclusion.

Benefits:

- ✓ NASAA Certified Organic Input
- ✓ Solubilise bound up Phosphorus
- ✓ Produces healthier plants and more vigorous root systems
- ✓ Applicable at all stages of crop production
- ✓ Increase yields and quality
- ✓ Improves root tolerance to biotic and abiotic stresses, in particular salt stress



Available in 20L drums and 1000L IBCs
NO withholding period

Application Rate

****Do NOT mix with fungicides ****

Spray Solution	20-40L/ha
Use coarse jet or flood jet nozzles	
Soil Fertigation Application	20-40L/ha
Drench	5% of tank volume

Application: Apply to soil surface to provide an inoculating dose of beneficial fungi to the soil profile. Ensure full and even coverage of soil surface. Fungi will not survive in direct UV sunlight and **must be watered or cultivated** in to move fungi away from soil surface. Target applications to plant rhizosphere. Preferred soil temperature is 10 - 30 °C.

Irrigation: Avoid flood irrigation for several days after application, to avoid washing fungi from the soil profile.

Timing: For best results, make first application 2 – 4 weeks prior to transplanting (following fumigation) or at transplant. Recovering or depleted soils may require monthly applications throughout the growing season. Further applications will be required following a weather event, to re-establish microbe populations. In ideal conditions, these fungi can survive in the soil profile for up to 2 years.

Food supplement: Soils with an organic matter content less than 2.5% may require the addition of a food supplement for best results. The fungi in RhizoGuard prefer a nutrition source with sugars and high nitrogen. We recommend molasses plus fish emulsion, applied at 3%

Colonisation: Colonisation of fungi in the soil profile can be slow. The more thorough the application to the whole soil profile and root zone, the faster the colonisation. Expect noticeable results within 14 days.

Directions for use: Ensure compliance with your quality assurance code of practice regarding the use of microbial products before use. It is recommended to keep an accurate record of each spray application.

General Information: This is a biological product. Colour, smell and consistency may vary between batches. Fungal filaments can be quite large – use only coarse jet or flood jet nozzles during application.

Mixing: Prior to opening, shake or agitate the container vigorously. Add the required quantity of RhizoGuard to water in the tank while stirring or with agitators in motion. Maintain agitation until spraying is complete.

Compatibility: RhizoGuard has been tested for compatibility with various other conventional products including fungicides, insecticides, herbicides and fertilisers. However, as formulations of other manufacturers' products are beyond the control of Novum Lifesciences, all mixtures should be tested prior to mixing commercial quantities. Changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays and Novum Lifesciences cannot be responsible for the behaviour of such mixtures. Do NOT mix RhizoGuard with fungicides.

Cleaning Up: Tank should be thoroughly rinsed with water before being used for RhizoGuard application. Equipment should be sanitised before and after use.

Storage and Handling: Read safety directions and SDS before use. While handling and applying microbial products, personal protective equipment should be worn. Store the original container in a cool, dry place away from direct sunlight and below 30°C. Use as soon as possible after opening but if this cannot be achieved then close immediately after use and use within 3 months. Contamination of contents may occur at any time after opening and Novum Lifesciences takes no responsibility for opened product not used immediately.

Shelf Life: The unopened shelf life of this product is 30 months from Date of Manufacture. Please refer to product Certificate of Analysis for batch details. The shelf-life period relates to the time product remains above the guaranteed concentration. Beyond the recommended shelf life, product may still have viable live organisms and spores however efficacy may be reduced. Uncontaminated product may still be safely applied to crops and gardens – it is not necessary to dispose of unused product.

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