



## RootShield® Granules

RootShield Granules is a biological fungicide that can be incorporated into your growing media to prevent a broad spectrum of root diseases and promote healthy root systems.

**Active Ingredient:** *Trichoderma harzianum* strain T-22

### Benefits & Features

- May be suitable for use in organic agriculture
- Grows in soil and on roots, shielding roots from pathogens
- Seeks out, attacks and eats fungal pathogens
- Induces host resistance
- Active over a wide temperature range (9-36 °C)
- Grows in a wide pH range (pH 4-8)
- Compatible with many chemical and biological inputs
- Well suited to a variety of soil types
- Enhances nutrient uptake
- Helps plants resist/overcome abiotic stresses and transplant shock
- Excellent tool for fungicide resistance management
- Does not interfere with beneficial insects
- Exempt from residue tolerance/MRLs (Maximum Residue Limits)

### SUSTAINABLE. SIMPLE. SUPPORT.

For over 25 years, BioWorks has been helping our customers to develop effective and efficient programs using safer, sustainable products - backed by a personalized approach to support.

At BioWorks, we strive to simplify the use of biologicals with our ongoing commitment to information, education, and service.



### DISEASE CONTROL

RootShield Granules provides preventative control of major root diseases including *Pythium*, *Rhizoctonia* and *Fusarium*. RootShield Granules controls disease for 10-12 weeks.



### HEALTHY ROOTS

RootShield grows in soils and on roots shielding them against root damaging fungi, promoting healthier roots and increasing root mass potential.



### MULTIPLE MODES OF ACTION

RootShield out-competes root diseases, shields the roots, and attacks pathogens.





## A BIOFUNGICIDE FOR THE CONTROL OF ROOT DISEASES



### PRODUCT INFORMATION

- *Trichoderma harzianum* strain T-22
- Available Sizes: 4.53 kg, 18 kg, 227 kg & 453 kg

#### REI & PHI

- No REI, 0-day PHI

#### SHELF LIFE

Frozen below 0 °C:	12 months
Refrigerated below 4.5 °C:	12 months
Room temp 25 °C:	6 months
Above 25 °C:	2 months or less

For use on greenhouse and outdoor nursery crops; all ornamentals, peppers, tomatoes and cucumbers; cannabis produced commercially indoors.

REGISTRATION NO. 27116  
MPS Code: 3785 White



### APPLICATION NOTES

- Shelf life when incorporated into growing media:
  - Frozen (0 °C) 3 months
  - Refrigerated (4.5 °C) 5 months
  - Room temp (25 °C) 5 months
  - Above 25 °C 2 months or less
- Thoroughly incorporate RootShield Granules during mix preparation or pot filling, or incorporate into planting beds by raking or tilling.
- RootShield Granules is compatible with many soils and soilless media including peat-, bark-, and coir-based mixes, as well as substrates used in hydroponic growing.



### APPLICATION RATES

#### BLEND RATES

- The general application rate is 750 grams/m<sup>3</sup> of growing media
- Small volumes blend 22.5grams/30L soil media
- Large volume blend rates are approximately three-18 kg bags per truckload of mix (75 m<sup>3</sup>)
- If you prefer large-volume custom blending with your media, contact your mix company

#### TECHNICAL SUPPORT

If you are a commercial grower with a question or if you want to discuss a particular issue, contact us.

Our team is ready to discuss your crop-specific issues or any questions you have about our products. We will provide you with rapid, comprehensive and personalized support.

(800) 877-9443 or [expert@bioworksinc.com](mailto:expert@bioworksinc.com)

#### THE STRAIN GAME

Not all biological strains are created equal. Strains from the same species can vary greatly in overall effectiveness. RootShield *Trichoderma* strain T-22 was selected from thousands for its exceptional ability to control a broad spectrum of soil-borne diseases under a wide range of conditions.