



## SMALL GRAINS

**Microbial seed inoculant for  
improving nutrient availability**

[www.visionbiologics.com](http://www.visionbiologics.com)

**Contains Non-Plant Food Ingredients**      **Not a fertilizer substitute.**

**Product 19010**

**Net Weight:** 14.82 oz (420 g)

**GUARANTEED ANALYSIS:**

**Active ingredients:**

*Bacillus amyloliquefaciens*  $2.0 \times 10^8$  cfu/g

*Trichoderma atroviride*  $1.0 \times 10^7$  cfu/g

**Other ingredients:**

Inert - Talc based carrier (99%)

**CAUTION - KEEP OUT OF REACH OF CHILDREN**

**Not for human or animal consumption.**

EXCEED DEEP ROOTS® is a living biological product. The actives multiply quickly with the roots as the plant matures.

**How it Works**

EXCEED DEEP ROOTS® is established at a high density within and around root tissues in a symbiotic relationship with the plant roots. Increased nutrient uptake occurs with this relationship which leads to increased plant growth and yields. EXCEED DEEP ROOTS® has been shown to promote root elongations and free phosphate. EXCEED DEEP ROOTS® can solubilize phosphate by reducing soil pH. EXCEED DEEP ROOTS® protects roots from certain physical stresses, allowing the roots to grow faster and deeper. EXCEED DEEP ROOTS® is not a fungicide and it will not replace your standard fungicide seed treatment.

**Application Instruction:**

Apply this product only as specified on this label. Reference the specified application rate to determine the proper amount needed for the seed.

**Application rate:**

Crop	Application Rate
Barley	0.247 oz (7 g) per 100 lbs seed
Oats	0.247 oz (7 g) per 100 lbs seed
Rye	0.247 oz (7 g) per 100 lbs seed
Spelt	0.247 oz (7 g) per 100 lbs seed
Wheat	0.247 oz (7 g) per 100 lbs seed

A 420 g pouch will treat 100 bushels or 6,000 lbs (2,730 kg) of seed.

**FOR USE IN COMMERCIAL SEED TREATMENT EQUIPMENT OR IN  
ON-FARM PLANTING EQUIPMENT.**

**Directions for Use**

Apply this product only as specified on this label. Reference the application rate from the table above to determine the proper amount needed for seed. Additional talc may be applied if needed.

**To apply:**

Apply EXCEED DEEP ROOTS® evenly onto seed. This may be done as a single batch or in a continuous system using the equipment designed to meter product onto moving seeds. Be sure to coat all seeds uniformly.

**Expiration Date:**

EXCEED DEEP ROOTS® carries an 18-month shelf life and expires the date marked on the bag.

**Storage and Handling**

EXCEED DEEP ROOTS® contains live spores of the naturally occurring fungus *Trichoderma atroviride* and bacteria *Bacillus amyloliquefaciens*. Spores are live and may be damaged when exposed to high temperatures or contact with water for more than 4 hours.

The live organisms contained in EXCEED DEEP ROOTS® require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store in a well-ventilated place. Keep container tightly closed. Store unopened containers of EXCEED DEEP ROOTS® in a dry cool place (less than 68°F or 20°C) away from sunlight and heat sources. Keep locked up.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use before the expiration date. The expiration date is valid for unopened containers stored according to the conditions listed above.

**CAUTION - KEEP OUT OF REACH OF CHILDREN**

Unused EXCEED DEEP ROOTS® and unplanted EXCEED DEEP ROOTS® inoculated seed should be disposed in accordance with applicable federal, state and local civil statutes.

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### Precautions

Eye or skin contact, inhalation or ingestion should be avoided. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing and eye protection. Avoid breathing dust. Ensure adequate ventilation. Use only outdoors or in a well ventilated area. Where exposure through inhalation may occur, use respiratory protective equipment. Wash thoroughly after handling. If Inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

The active ingredients in EXCEED DEEP ROOTS® are *Trichoderma atroviride* and *Bacillus amyloliquefaciens* spores. This product contains microorganisms that may have the potential to provoke sensitizing reactions. Use appropriate personal protective equipment (PPE) to reduce exposure. Sensitized individuals should wear an approved respirator. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

Information regarding the contents and levels of metals in this product is available on the internet at:  
<http://www.aapfco.org/metals.html>

### IMPORTANT: READ BEFORE USE

Read all directions for application, conditions and limited warranty before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following:

### Conditions:

The directions for use of this product must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of the seller TO THE EXTENT CONSISTENT WITH APPLICABLE LAW; all such risks shall be assumed by the user or buyer.

### Limited Warranty

The seller warrants that the product contains a minimum number of *Trichoderma atroviride* and *Bacillus amyloliquefaciens* colony forming units as specified on this label. The seller makes no other warranty expressed or implied as to product viability or performance since product storage, use and growing conditions are beyond the Seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from use or handling of this product and accepts the product on that condition. If this product does not perform as warranted above, and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of the seller.

**VISION BIOLOGICS ASSUMES NO RESPONSIBILITY FOR LOSS OR PARTIAL LOSS OF CROP FROM ANY CAUSE WHATSOEVER. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE LIMITED WARRANTY IS VOID WHERE PROHIBITED BY LAW. IF YOU HAVE ANY QUESTIONS ABOUT THIS PRODUCT OR ANY OTHER VISION BIOLOGICS PRODUCT, CALL 940-264-0343 FOR ASSISTANCE.**

### NON-PLANT FOOD INGREDIENT

Manufactured for: Visjon Biologics



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