

QuickRoots®

wettable powder

soybean, pulse,
sunflower and
sugar beet

ATTENTION:

This Specimen label is provided for general information only.

Microbial seed inoculant for improving nutrient availability for increased yield potential.

CONTAINS NONPLANT FOOD INGREDIENT(S)

ACTIVE: 3.0 x 10⁸ viable cfu/g *Bacillus amyloliquefaciens*
3.0 x 10⁷ cfu/g *Trichoderma virens*

INERT: wettable powder, 79%

**Read the entire label before using this product.
Use only according to label directions.**

How it Works

The microorganisms in QuickRoots® have been shown to increase availability of certain important plant nutrients and can increase plant uptake. Increased plant nutrient availability may lead to an increase in yield response. QuickRoots is not a fungicide and it will not replace your standard fungicide seed treatment.

Directions for Use

Open package only when ready to use. Use before expiration date.

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

Application Rate

Crop	Application Rate	Scoop Treats	4.8 kg pail Treats
Soybean	4 g per 140,000 seeds (unit)	5 units	1200 units
Sugar Beet	8 g per 100,000 seeds (unit)	2.66 units	600 units
Sunflower	30 g per 200,000 seeds (unit)	64 units	160 units
Dry Bean	1 g per 26,000 seeds	520,000 seeds	124 million seeds
Chickpea	1 g per 35,000 seeds	520,000 seeds	168 million seeds
Field Pea	1 g per 60,000 seeds	1.2 million seeds	288 million seeds
Lentil	1 g per 110,000 seeds	2.2 million seeds	528 million seeds

If applying QuickRoots alone: Dilute (mix) with adequate amount of non-chlorinated water. Mix well and apply uniformly to the seed.

When applying QuickRoots with liquid Rhizobia: Mix proper proportions of QuickRoots and Rhizobia. Apply proper agitation (directed across the pre-mix tank creating a bubbling action on the far wall) and continuous agitation to avoid settling. Mix well and apply uniformly to seed. Slurry must be applied to seed within 2 hours.

When applying QuickRoots with other seed treatment products: Novozymes strongly recommends a SIMULTANEOUS APPLICATION USING SEPARATE TANKS/NOZZLES (also called wet sequential application) – where the other seed treatment components and QuickRoots products are mixed in separate premix tanks and sprayed wet onto the seed at the same time (simultaneous application).

Seed Treatment Compatibility: Although QuickRoots is compatible with many fungicide (FST) and/or insecticide (IST) seed treatment products, on-seed and in-tank survival of QuickRoots may be significantly reduced by using a common tank mix application method and must be applied within 2 hours. Do not apply with seed treatment formulations containing high levels of Zinc or Copper. QuickRoots has not been tested with all possible seed treatment combinations.

For a list of compatible seed treatments, contact Novozymes at 1-888-744-5662

Applicators and Other Handlers

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 QuickRoots are *Bacillus amyloliquefaciens* and *Trichoderma virens* 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.

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Storage and Disposal

QuickRoots contains live spores of the naturally occurring fungus *Trichoderma virens* and the naturally occurring bacteria *Bacillus amyloliquefaciens*, which may be damaged when exposed to high temperatures or contact with water for more than 4 hours. The live organisms contained in QuickRoots 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 QuickRoots in a dry cool place (less than 68°F or 20°C) away from sunlight and heat sources. Store 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 conditions listed above.
- Keep out of the reach of children.

Unused QuickRoots and seed to which QuickRoots has been applied should be disposed of in accordance with applicable Federal, state/provincial, and local requirements.

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

Limited Warranty

The Seller warrants that this product contains a minimum number of *Bacillus amyloliquefaciens* and *Trichoderma virens* 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 the 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 Novozymes BioAg.

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