

# QuickRoots®

## wettable powder

soybean, pulse,  
sunflower  
and sugar beet

### ATTENTION:

This Specimen label is provided for general information only.

### MINIMUM GUARANTEED ANALYSIS

ACTIVE: 3.0 x 10<sup>8</sup> viable cfu/g *Bacillus amyloliquefaciens*  
3.0 x 10<sup>7</sup> cfu/g *Trichoderma virens*  
INERT: wettable powder, 78.5%

### NONPLANT FOOD INGREDIENT

Not a fertilizer substitute

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

#### 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.

#### How to Apply

**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 seed.

#### Applicate Rate

Crop	Application rate	200 gram pouch treats
Soybean	4 g per 140,000 seeds (unit)	50 units
Sugar beet	8 g per 100,000 seeds (unit)	25 units
Sunflower	30 g per 200,000 seeds (unit)	6.6 units
Dry bean	1 g per 26,000 seeds	5.2 million seeds
Chickpea	1 g per 35,000 seeds	7 million seeds
Field pea	1 g per 60,000 seeds	12 million seeds
Lentil	1 g per 110,000 seeds	22 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 wettable powder with other seed treatment products:

Novozymes BioAg Limited 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. QuickRoots remains viable up to 18 months after proper application on seed. For a list of compatible seed treatments, contact Novozymes BioAg Limited at 1-888-744-5662.

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### 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: Move 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.

### Storage and Disposal

QuickRoots wettable powder 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 wettable powder require specific storage conditions to ensure viability and product performance.

To maintain product viability:

- Store unopened containers of QuickRoots wettable powder 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 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

Novozymes BioAg Limited warrants that the product conforms to the specifications set out on this label. Notwithstanding the foregoing, in no event shall Novozymes BioAg Limited be liable to users or any other persons for any loss or damage caused by use or misuse of QuickRoots. Novozymes BioAg Limited expressly disclaims any and all other warranties and representations, whether express or implied, whether arising by statute or otherwise in law or from a course of dealing or usage of trade, including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

novozymes® 

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