Cell-Tech® Peat

nitrogen-fixing inoculant for

soybean

Cell-Tech® Soybean Peat Inoculant Single-Action Legume Fertility

NONPLANT FOOD INGREDIENT(S)

ACTIVE: 2 billion (2 x 10^9) viable cfu/g *Bradyrhizobium japonicum*

INERT: >99% peat-based carrier

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

How it Works

The active ingredient in Cell-Tech® Peat Nitrogen-fixing Inoculant for Soybean, the naturally occurring bacterium *Bradyrhizobium japonicum*, grows on plant roots and forms root nodules which convert or fix nitrogen from the air into forms the plants can use.

Directions for Use

Cell-Tech Peat for Soybean can be applied as a dry application or applied to pre-moistened seed. Cell-Tech Peat for Soybean may be applied when transferring seed from the bin to the truck, or from the truck to the tank or seed cart. This product may also be applied directly to seed in the tank or seed cart. Cell-Tech Peat for Soybean should be mixed thoroughly with the seed and the seed should be evenly coated. Cell-Tech Peat for Soybean inoculated seed should be planted within 48 hours.

For Best Results:

- Double inoculation, the act of using a double application of a rhizobial inoculant, is recommended in certain soil conditions (such as when planting on land previously used for pasture or planting soybean for the first time).
- Double inoculation can be achieved by application of any combination of liquids, peat powders, or furrow-applied liquid or granule rhizobial inoculants that are labeled for the target crop.

Dry Application:

- Pour the correct amount of Cell-Tech Peat for Soybean into drill hopper, as referenced in Table 1. Mix thoroughly.
- For bulk systems, Cell-Tech Peat for Soybean can be directly metered onto seed.

Slurry Method Application:

- Mix Cell-Tech Peat for Soybean with cool, clean, non-chlorinated water and apply to seed as a slurry, as referenced in Table 1.

Table 1. Application rates and bare seed planting windows.

Crop	Bag Size	Seed inoculated by one bag	Approximate water volume	Planting Window (bare seed)
Soybean	2.32 kg	681 kg (1,500 lb, 25 bu, 30 units) soybeans or 4,200,000* seeds *based on 140,000 seeds per unit	3.0 litres (3.2 US quarts)	48 hours

Seed Treatment Recommendations

- Application with other seed treatments is possible, but may reduce the planting window. For up-to-date pesticide compatibility information, please call Novozymes BioAg at 1-888-744-5662.

Where to Use for maximum benefit

- Best nitrogen responses to Cell-Tech Peat for Soybean occur in soils that are low in available forms of nitrogen and populations of Bradyrhizobium japonicum.
- If soils are extremely low in available nitrogen, below 16.8 kg N/ha (15 lb N/acre), Cell-Tech Peat for Soybean may be more effective when used with a small amount of starter nitrogen fertilizer 11.2-16.8 kg N/ha (10-15 lb N/acre).

Benefits of using Cell-Tech Peat for Soybean may be limited on:

- Soils with high nitrogen levels or with high application rates of nitrogen fertilizer.

Applicators and Other Handlers

The active ingredient in Cell-Tech Peat for Soybean is *Bradyrhizobium japonicum* viable cells. Eye or skin contact, inhalation, or ingestion should be avoided. Wear standard protective clothing and equipment including gloves, safety glasses. Ensure adequate ventilation. Where exposure through inhalation may occur, use respiratory protective equipment. 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 NIOSH-approved particulate respirator (TC-84A) with any N, R, or P filter. 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

Cell-Tech Peat for Soybean requires specific storage conditions to ensure viability and product performance:

- Store Cell-Tech Peat for Soybean bags and seed under cool conditions < 20°C (68°F) away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use entire contents of bag after opening.
- Use before the expiry date. The expiry date is valid only for unopened bags stored under the previously noted conditions.

Unused Cell-Tech Peat for Soybean should be disposed of in accordance with applicable federal, state/provincial, and local requirements. Seed treated with Cell-Tech Peat for Soybean is not recommended for food, feed or oil purposes.

Limits of Liability and Warranty

The Seller warrants that this product contains a minimum number of *Bradyrhizobium japonicum* viable cells 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.

EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESSED REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OR GUARANTEE TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, INCLUDING ANY OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.

Net Contents

7 x 2.32 kg (5.1 lb)

Treats

7 x 681 kg (1,500 lbs, 25 bu, 30 units) of seed or 4,200,000* seeds

*Based on 140,000 seeds per unit

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