

# Cell-Tech<sup>®</sup> peat

## nitrogen-fixing inoculant for

soybean

### ATTENTION:

This Specimen label is provided for general information only.

### MINIMUM GUARANTEE ANALYSIS

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

INERT: peat-based carrier

### NON-PLANT FOOD INGREDIENT

Not a fertilizer substitute

### How It Works

The active ingredient in Cell-Tech<sup>®</sup> peat 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.

### How to Apply

Cell-Tech<sup>®</sup> peat can be applied as a dry application or applied to pre-moistened seed. Cell-Tech peat 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 should be mixed thoroughly with the seed and the seed should be evenly coated. Cell-Tech peat inoculated seed should be planted within 48 hours.

#### Dry Application:

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

#### Slurry Method Application:

- Mix Cell-Tech 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 and bare seed planting windows, please contact Novozymes at 1-888-744-5662.

#### Where to use for Maximum Benefit

- Best nitrogen responses to Cell-Tech 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 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 may be limited on:

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

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## Applicators and Other Handlers

The active ingredient in Cell-Tech peat nitrogen-fixing inoculant 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 and 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 a NIOSH-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

Cell-Tech peat requires specific storage conditions to ensure viability and product performance:

- Store Cell-Tech peat bags and Cell-Tech peat inoculated 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 and Cell-Tech peat inoculated seed should be disposed of in accordance with applicable civil statutes.

## Limited 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 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 on that condition.