

Cell-Tech™ liquid

nitrogen-fixing inoculant soybean



soybean

ATTENTION:

This specimen label is provided for general information only.

- This biological product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of biologicals.
- Before using any biological, be sure the intended use is approved in your state or locality.
- Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the product label.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the biological you are using.

MINIMUM GUARANTEED ANALYSIS

ACTIVE: 2 billion (2×10^9) viable cfu/ml
[2×10^9 viable cfu/g] *Bradyrhizobium japonicum*

INERT: Aqueous carrier >99%

NONPLANT FOOD INGREDIENT

Not a fertilizer substitute

SHAKE WELL BEFORE USING.

Read the entire label before using this product. Use only according to label directions. Open package only when ready to use. Use before expiration date.

How it Works

The active ingredient in Cell-Tech™ liquid nitrogen-fixing inoculant soybean is the bacterium *Bradyrhizobium japonicum*. *Bradyrhizobium japonicum* forms root nodules which convert, or fix, nitrogen in the air into forms the plant can use.

Application Rate

- On-Seed
63 ml/23 kg [2.1 fl oz per unit (50 lb)]
- In-furrow
15-30 ml/304 m of row (0.5-1 fl oz/1,000 ft of row)

Directions for On-Seed Use

Settling of bacteria is normal. Shake product well before use to achieve a uniform suspension. Protect inoculated seed from sunlight and drying winds. Cell-Tech liquid nitrogen-fixing inoculant soybean is a biological product which may be sensitive to chemical residues. Plant inoculated seed within four days.

For Best Results




Over-application may initially cause sticky seed. Dried seeds are no longer sticky, but seeds may be clumped or bridged. Break seed clumps apart before planting. Decrease Cell-Tech liquid nitrogen-fixing inoculant soybean rate to eliminate the problem.

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 Monsanto Company at 1-877-775-8787.

On-Seed

1. Measure the appropriate rate for the quantity of seed being inoculated.
2. Pour over the seed and stir well until all seeds glisten. Rate: 63 ml/23 kg (2.1 fl oz per unit [50 lb]).

Batch Application		
 1	 2	 3
Pour desired quantity into measuring cup.	Pour around top of seed.	Stir well to coat all seed.



Manufactured For
and Guaranteed By:
Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, Missouri 63167 USA

For Medical, Transportation,
Spill or Other Emergencies
Call Collect 24 Hours a Day
1-314-694-4000

For Product Use Information
Call: 1-877-775-8787


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Continuous Application

1. Remove bladder from box, remove cap, remove inner seal and replace with applicator cap and tubing.
2. If you are using the Cell-Tech "Application Kit", insert "S" hook in opening on bag and hang assembled unit to allow placement of the tube end at the base of the auger. Otherwise, hang the assembled unit to allow placement of the tube end at the base of the auger.

Continuous Application	
	<p>Remove bladder from box, remove cap, remove inner seal and replace with applicator cap and tubing. Hang bag and calibrate.</p> <p>Proper rate of Cell-Tech soybean is when seed first becomes uniformly coated and glistens.</p> <p>Initially calibrate Cell-Tech soybean flow below the recommended rate, and then increase to proper rate.</p> <p>Operate the auger at half capacity for best mixing.</p>

Directions for In-furrow Use

Settling of bacteria is normal. Shake product well before use to achieve a uniform suspension. Cell-Tech liquid nitrogen-fixing inoculant soybean is a biological product which may be sensitive to chemical residues. Do not apply banded to the side, below, or above the seed. In hot/dry soil conditions, minimize the harmful effects on the inoculant by applying water as soon as possible (irrigated land). If using a pivot irrigation to apply product start on the soybeans that were planted first. Use the diluted product within 24 hours. Do not allow tank mix to exceed 37.7°C (100°F).

In-Furrow

1. Shake product well before use to achieve a uniform suspension and empty into the cleaned spray tank.
2. Fill the spray tank with clean, non-chlorinated water to the appropriate level. Product will be mixed with this procedure and does not require agitation to remain in suspension.
3. Use a clean liquid delivery system to apply the diluted inoculant in the furrow directly on the seed.
4. Cell-Tech liquid nitrogen-fixing inoculant soybean is to be applied in-furrow at a rate of 15 to 30 milliliters of concentrate per 304 meters of row (0.5 to 1 fluid ounce per 1,000 feet of row). The application of the diluted product may be applied at 28 to 190 liters per hectare (3 to 20 gallons per acre). Calibrate equipment to deliver correct flow rate. The quantity of product delivered per hectare (acre) will vary depending upon row width.

Metric Measurements		
Row width (cm)	Recommended product rate* (ml/ha)	Unit treats (ha)
38	1,280 - 2,560	4.9 - 9.8
51	950 - 1,900	6.6 - 13.2
76	620 - 1,240	10.1 - 20.2
91	550 - 1,100	11.4 - 22.7

U.S. Customary Measurements		
Row width (in)	Recommended product rate* (fl oz/ac)	Unit treats (ac)
15	17.5 - 35.0	12.8 - 25.5
20	13.0 - 26.0	17.2 - 34.3
30	8.8 - 17.0	26.3 - 52.5
36	7.5 - 15.0	29.8 - 59.5

* Under adverse conditions or on first year land, use full rate of Cell-Tech (30 milliliters per 304 meters of row or 1 fluid ounce per 1,000 feet of row).

Applicators and Other Handlers

The active ingredient in Cell-Tech liquid nitrogen-fixing inoculant 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 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

The active ingredient in Cell-Tech liquid nitrogen-fixing inoculant soybean is a living organism and requires specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store containers between 32°F (0°C) and 77°F (25°C), away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Keep container closed when not in use.
- Use before the expiration date. The expiration date is valid only for unopened bags stored under the conditions listed above.
- Use this product only in well-ventilated areas.

Unused Cell-Tech™ liquid and seed to which Cell-Tech™ liquid 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 *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 Monsanto Company.

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Patents that cover Cell-Tech can be found at www.monsantotechnology.com

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