BEST PRACTICES FOR APPLYING PEAT INOCULANTS TO SOYBEANS

TagTeam®

Cell-Tech®

TagTeam® inoculant provides balanced nutrition by combining a nitrogen-fixing bacteria with *Penicillium bilaiae*, the active ingredient in JumpStart® inoculant. *Penicillium bilaiae* is a naturally occurring soil fungus which grows along plant roots, releasing phosphate, making it more available for the plant to use.

Cell-Tech® is a single-action inoculant that contains specially selected rhizobia that can provide effective nodulation to enhance nitrogen-fixation.

TAGTEAM PEAT OR CELL-TECH PEAT FOR SOYBEAN

The utilization of peat based soybean inoculants as an on-seed treatment is a common method of delivering rhizobia into the growing environment. As with any biological seed treatment, special considerations such as application methods and rates, compatibility and time on-seed must be adhered to. This document outlines some of the best practices for the application of a peat inoculant onto soybean seed. Please read product labels for complete application and use instructions.

For peat inoculant application, we recommend that soybean growers have a professional toller (seed treater) apply with the proper application equipment to handle soybeans and meter the peat inoculant. As soybeans are sensitive to seed damage, screw augering should be avoided. Applying peat inoculant using a conveyor may not provide uniform coverage. Professional tollers have the experience to properly handle the soybean seed and to utilize the metering equipment that is calibrated to uniformly apply the peat product.

Another option is for the grower to apply using an on-farm metering device that can deliver peat inoculant. As the soybeans are being moved, a properly used metering device can deliver the correct amount of peat inoculant onto the soybean seed. This allows for ease of use on farm and can enable the application of a peat inoculant to be closely coordinated with planting timing. If choosing this option for application, be sure to calibrate equipment properly and follow manufacturer's directions.

Direction for use:

- TagTeam peat or Cell-Tech peat for soybean may be applied when transferring soybean seed from the bin to the truck or the truck to planting equipment. This product can also be directly applied in the seed tank or cart of the planting equipment.
- Apply TagTeam or Cell-Tech peat to soybean seed as a dry application or to pre-moistened seed.

Dry application method:

- Pour the correct amount of TagTeam or Cell-Tech peat into planting equipment hopper as referenced on product labels.
- For bulk systems, TagTeam or Cell-Tech peat can be directly metered onto seed as it is being transferred.
- Ensure TagTeam or Cell-Tech peat are mixed thoroughly with the seed and evenly coated.
- Soybean seed inoculated with TagTeam or Cell-Tech peat should be planted within 48 hours.

Slurry application method:

- Mix TagTeam or Cell-Tech peat with cool, clean, non-chlorinated water and apply to seed as a slurry. Table 1 below outlines the recommended water application rates.
- Ensure TagTeam or Cell-Tech peat are mixed thoroughly with the seed and evenly coated.
- Soybean seed inoculated with TagTeam or Cell-Tech peat should be planted within 48 hours.

Table 1: Application rates and bare seed planting windows

Crop	Product	Seed inoculated by one bag	Approximate water volume	Planting window (bare seed)
Soybean	TagTeam peat	907 kg (2,000 lb, 33 bu, 40 units) soybeans or 5,600,000* seeds	3.0 litres (3.2 US quarts)	48 hours
Soybean	Cell-Tech peat	907 kg (2,000 lb, 33 bu, 40 units) soybeans or 5,600,000* seeds	3.0 litres (3.2 US quarts)	48 hours

*Based on 140,000 seeds per unit. Please read product labels before application for complete use instructions.

Seed treatment compatibility recommendations:

Application with other seed treatments is possible, but may reduce the planting window. For up-to-date compatibility information, please call Monsanto Canada at 1-877-775-8787 or visit MonsantoBioAg.ca.

Table 2: Seed treatment compatibility

	Soybean planting window			
Seed treatment	Sequential application	Simultaneous application	Sequential application	Simultaneous application
	TagTeam® peat – soybean		Cell-Tech® peat – soybean	
Cruiser Maxx® Vibrance® Beans	2 days	2 days	2 days	2 days
Trilex® AL	2 days	2 days	Not tested	Not tested
Vibrance Maxx®	2 days	2 days	2 days	2 days
Vibrance Maxx RFC	2 days	2 days	2 days	2 days
Vibrance Maxx RFC + Cruiser® 30 g	2 days	2 days	2 days	2 days
Vibrance Maxx RFC + Cruiser 50 g	2 days	2 days	2 days	2 days
Vitaflo® 280	Not tested	Not tested	2 days	2 days

Storage of TagTeam peat and Cell-Tech peat

- Store TagTeam or Cell-Tech peat and inoculated seed in a dry cool place, less than 20°C (68°F), away from sunlight and heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use entire contents of bag after opening.
- Use before the expiration date. The expiration date is valid for unopened bags stored according to the conditions listed above.

If you need more information or have questions about our products, contact Monsanto BioAg toll-free at **1-800-667-4944** or visit **MonsantoBioAg.ca**.

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NATURE. IT'S POWERFUL TECHNOLOGY.