

TagTeam® granular phosphate-solubilizing and nitrogen-fixing inoculant for

soybean

ATTENTION:

This Specimen label is provided for general information only.

TagTeam® Granular for Soybean is a DUAL-ACTION inoculant combining the phosphate-solubilizing microorganism *Penicillium bilaiae* with nitrogen-fixing rhizobia. Together they can create more fixed nitrogen and better access to soil and fertilizer phosphate, providing the best yield

CONTAINS NONPLANT FOOD INGREDIENT(S)

ACTIVE: 1.0 x 10⁵ cfu/g *Penicillium bilaiae*
1.0 x 10⁸ viable cfu/g *Bradyrhizobium japonicum*

INERT: Peat granules and water

How it Works

The active ingredients in TagTeam® Granular phosphate-solubilizing and nitrogen-fixing inoculant for Soybean are the bacterium *Bradyrhizobium japonicum* and the soil fungus *Penicillium bilaiae*. The naturally occurring soil fungus *Penicillium bilaiae*, grows on plant roots and makes less available forms of residual soil phosphate immediately available for crop use. The other active ingredient, the naturally occurring bacterium *Bradyrhizobium japonicum*, infects plant roots and forms root nodules which convert, or fix, nitrogen from the air into forms plants can use.

Directions for Use

Shipping and stacking of TagTeam Granular for Soybean may cause some granules to become compacted. Loosen any compacted granules before using this product.

TagTeam Granular for Soybean should be applied directly with the seed in the seed row using a granular tank for application. Application rates will vary according to row spacing, refer to Table 1 for details. Apply in-furrow only. Do not band. Do not mix TagTeam Granular for Soybean in the same tank with fertilizers, granular pesticides, or seed. TagTeam Granular for Soybean can be used with pesticide treated seed. Do not leave TagTeam Granular for Soybean in tank or seed cart overnight. Be sure to calibrate your equipment to deliver the correct amount of TagTeam Granular for Soybean per acre for your row spacing, refer to Table 1 for details. Under humid conditions, reduce the weight of TagTeam Granular for Soybean per tank and check flow on a regular basis.

Table 1. Application rates for TagTeam Granular for Soybean

Row spacing	15.2 cm (6.0 in)	17.8 cm (7.0in)	20.3 cm (8.0 in)	22.9 cm (9.0 in)	25.4 cm (10.0 in)	30.5 cm (12.0 in)	38.1 cm (15.0 in)	61.0 cm (24.0 in)	76.2 cm (30.0 in)
Application rates	8.0 kg/ha (7.1 lb/ac)	6.9 kg/ha (6.2 lb/ac)	6.0 kg/ha (5.4 lb/ac)	5.3 kg/ha (4.7 lb/ac)	4.8 kg/ha (4.3 lb/ac)	4.0 kg/ha (3.6 lb/ac)	3.2 kg/ha (2.9 lb/ac)	2.0 kg/ha (1.8 lb/ac)	1.6 kg/ha (1.4 lb/ac)

Note: The bulk density for TagTeam Granular for Soybean averages 0.6 g/cm³ (37lb/ft³).

Calibrate with 3-4 bags before adding more inoculants to the tank or seed cart. A maximum of 25 bags per tank should be used.

- Before using, make sure the hopper, rotor, feed mechanism, and calibration equipment are free from chemical residue, fertilizer, and debris.
- Make sure that the tubing to the planting shoe is as straight and vertical as possible.
- If using an air seeder, ensure that the tank screen is clean when filling tank or seed cart. Follow calibration instructions supplied by the air cart manufacturer. Check flow regularly.
- If augering, please do so at low speeds to avoid damage to TagTeam Granular for Soybean.

Special considerations

Environmental conditions can change the flowability of TagTeam Granular for Soybean.

- Do not allow TagTeam Granular for Soybean to get wet or to dry out.
- In humid conditions, check and clean metering system regularly to ensure consistent flow

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Where to Use for Maximum Benefit

Higher nitrogen fixation with TagTeam Granular for Soybean occurs in soils that are low in available forms of nitrogen and populations of *Bradyrhizobium japonicum*.

Benefits of using TagTeam Granular for Soybean may be limited on:

- Soils with high nitrogen levels or with high application rates of nitrogen fertilizer;
- Soils that have been heavily manured (likely to be high to very high in available phosphate);
- Soils that do not tie up phosphate, i.e., very sandy soils (greater than 85% sand) and soils that contain more than 14% organic matter.

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.

Applicators and Other Handlers

The active ingredients in TagTeam Granular for Soybean are *Penicillium bilaiae* spores and *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 ingredients in TagTeam Granular for Soybean are living organisms and require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store bags 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 within 24 hours after opening. Do not store opened bags of TagTeam Granular for Soybean.
- 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 TagTeam Granular for Soybean 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 *Penicillium bilaiae* and *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..