

TagTeam[®] granular

phosphate-solubilizing and nitrogen-fixing inoculant for

chickpea

ATTENTION:

This Specimen label is provided for general information only.

MINIMUM GUARANTEED ANALYSIS

ACTIVE: 1.0 x 10⁶ cfu/g *Penicillium bilaiae*
 1.0 x 10⁸ viable cfu/g *Mesorhizobium ciceri*
 INERT: peat-based carrier

NONPLANT FOOD INGREDIENT

Not a fertilizer substitute

How it Works

The active ingredients in TagTeam[®] granular phosphate-solubilizing and nitrogen-fixing inoculant for chickpea are the bacterium *Mesorhizobium ciceri* and the soil fungus *Penicillium bilaiae*. *Mesorhizobium ciceri* forms root nodules which convert, or fix, nitrogen in the air into forms plants can use. *Penicillium bilaiae* grows on plant roots and makes less available forms of residual soil phosphate available for crop use.

How to Apply

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

TagTeam granular 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 in the same tank with fertilizers, granular pesticides, or seed. TagTeam granular can be used with pesticide treated seed. Do not leave TagTeam granular in tank or seed cart overnight. Be sure to calibrate your equipment to deliver the correct amount of TagTeam granular per acre for your row spacing, refer to Table 1 for details. Under humid conditions, reduce the weight of TagTeam granular per tank and check flow on a regular basis.

Calibrate with 50 kg before adding more inoculant to the tank or seed cart. A maximum of 264 kg (582.4 lb) 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.

TagTeam MultiAction Legume Fertility

Table 1: Application rates for TagTeam granular phosphate-solubilizing and nitrogen-fixing inoculant for chickpea

Row spacing (cm)	15.2	17.8	20.3	22.9	25.4	30.5	38.1
Row spacing (in)	(6.0)	(7.0)	(8.0)	(9.0)	(10.0)	(13.0)	(15.0)
Application rates (kg/ha)	6.1	5.3	4.6	4.0	3.7	3.1	2.4
Application rates (lb/ac)	(5.5)	(4.7)	(4.1)	(3.6)	(3.3)	(2.7)	(2.2)

Note: The bulk density of TagTeam granular averages 0.7 g/cm³ (43 lb/ft³).

Special Considerations

Environmental conditions can change the flowability of TagTeam granular.

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

Where to use for Maximum Benefit

Higher nitrogen fixation with TagTeam occurs in soils that are low in available forms of nitrogen and populations of *Mesorhizobium ciceri*.

For soils low to medium in available phosphate:

Use TagTeam with the lower recommended P fertilizer rate from soil test results. If you do not soil test, use with normal P fertilizer rate.

For soils high to very high in available phosphate:

Replace the starter in-row P fertilizer application (16.8-22.4 kg P₂O₅/ha [15-20 lb P₂O₅/acre]) with TagTeam.

Benefits of using TagTeam 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);
- In 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.

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Applicators and Other Handlers

The active ingredients in TagTeam granular phosphate-solubilizing and nitrogen-fixing inoculant for chickpea are *Penicillium bilaiae* spores and *Mesorhizobium ciceri* 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

The active ingredients in TagTeam granular phosphate-solubilizing and nitrogen-fixing inoculant are living organisms and require specific storage conditions to ensure viability and product performance.

To maintain product viability:

- Store bags and inoculated seed under cool conditions <68°F (20°C) away from sunlight and direct 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 only for unopened bags stored under the conditions listed above.

Unused TagTeam granular phosphate-solubilizing and nitrogen-fixing inoculant should be disposed of in accordance with applicable civil statutes.

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* colony forming units and *Mesorhizobium ciceri* 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 the product on that condition.