

TagTeam[®] GRANULAR

Phosphate-solubilising and nitrogen-fixing
biological inoculant for chickpeas (Group N)

TagTeam[®] Multi Action Legume Nutrition

Minimum Guaranteed Analysis

Active ingredients: 1.0 x 10⁶ cfu/g *Penicillium bilaiae*
1.0 x 10⁸ cfu/g *Mesorhizobium ciceri*

Inert ingredients: Peat granules and water

Provides access to nutrient resources.

Not a fertiliser substitute.

Read the entire label before using the product.

Use only according to label directions.

How it works

One of the active ingredients in TagTeam, the naturally occurring soil fungus *Penicillium bilaiae*, grows on plant roots and makes less available forms of residual soil phosphate available for crop use. The other active ingredient, the naturally occurring bacterium *Mesorhizobium ciceri*, forms root nodules which convert or fix nitrogen from the air into forms the plants can use.

How to apply

TagTeam granular phosphate-solubilising and nitrogen-fixing biological inoculant for chickpeas should be applied directly with the seed in the seed row using a granule tank for application. Application rates will vary according to row spacing (refer to table below).

- Drop TagTeam granular bags once on each edge to loosen compacted granules
- Before using, make sure the hopper, rotor, feed mechanism, and calibration equipment are free from chemical residues, fertiliser, and debris
- Make sure that the tubing to the planting shoe is as straight and vertical as possible
- Do not auger TagTeam granular
- Do not mix TagTeam granular in the same tank with fertilisers, granular pesticides or seed
- Use air seeder tank screen when filling tank or seed cart
- Apply in-furrow only. Do not band
- TagTeam granular can be used with pesticide-treated seed
- Follow calibration instructions supplied by the air cart manufacturer. Check flow regularly
- Calibrate your equipment to deliver the correct amount of TagTeam granular per hectare for your row spacing (refer to table below)
- Calibrate with a few bags before adding more inoculant to the tank or seed cart
- A maximum of 15 bags per tank should be used. Under humid conditions, reduce the number of bags per tank and check flow on a regular basis
- Do not leave TagTeam granular in the tank or seed cart overnight

Table 1. Application rates for TagTeam granular phosphate-solubilising and nitrogen-fixing biological inoculant for chickpeas

Row spacing

17.8 cm (7.0 in)	20.3 cm (8.0 in)	23.0 cm (9.0 in)	25.4 cm (10.0 in)	27.9 cm (11.0 in)	30.5 cm (12.0 in)	33.0 cm (13.0 in)	35.6 cm (14.0 in)	38.0 cm (15.0 in)
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Application rates

5.6 kg/ha	4.9 kg/ha	4.4 kg/ha	3.9 kg/ha	3.6 kg/ha	3.3 kg/ha	3.0 kg/ha	2.8 kg/ha	2.6 kg/ha
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Note: The bulk density for TagTeam granular averages 0.7 g/cm³.

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Special considerations:

Environmental conditions can change the flowability of TagTeam granular inoculant.

- 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*.

- Do not use TagTeam on soils with herbicide residues that may adversely affect chickpea growth

For soils low to medium in available phosphate:

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

Benefits of using TagTeam may be reduced in:

- Soils with high nitrogen levels or with high application rates of nitrogen fertiliser
- 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

Applicators and other handlers

The active ingredients in TagTeam granular phosphate-solubilising and nitrogen-fixing biological inoculant for chickpea are *Penicillium bilaiae* spores and *Mesorhizobium ciceri* viable cells. This product may cause adverse effects to individuals allergic to moulds and/or fungi and should not be used by immunocompromised and/or immunosuppressed individuals. Absorption by eye or skin contact, inhalation, and ingestion must be prevented at all times when handling this product. Users MUST wear standard protective clothing and equipment including gloves, safety glasses, and a respirator during product use and storage as well as during equipment maintenance and clean-up. 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-solubilising and nitrogen-fixing biological inoculant for chickpeas are living organisms and require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store Tag Team bags under cool conditions (<20°C) away from sunlight and direct heat sources
- Minimise temperature fluctuations
- Avoid freeze/thaw cycles
- Use entire contents of bag within 24 hours after opening. Do not store opened bags of TagTeam granular
- Use before the expiry date. The expiry date is valid only for unopened bags stored under the conditions listed above
- Use this product only in well-ventilated areas
- Avoid direct contact with pesticides and fertilisers