

Nodulator N/T liquid inoculant

technology sheet

Biostacked® inoculant providing the highest on-seed count of biologicals.

- High potency, liquid inoculant.
- Biostacked for greater nodule mass, faster canopy closure and greater vigour.
- Greater yield potential.
- Up to 30 days on-seed survivability.

Bioactive ingredients

Bradyrhizobium japonicum
Bacillus amyloliquefaciens

Formulation

Liquid

One case contains

4 x 3.1 L bladders
4 x 100 ml bottles

Storage

Protect from temperatures below 1°C and above 20°C. Do not allow this product to freeze.

Crops

Soybeans

Treatment

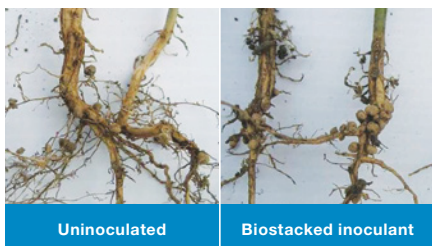
Applied on seed or in furrow.

Inoculant activity

Nodulator® N/T liquid inoculant contains a minimum of 3×10^9 viable cells of *Bradyrhizobium japonicum* per gram and 2.2×10^{10} viable cells of *Bacillus amyloliquefaciens* per gram.

Research shows that Biostacked soybean inoculants promote:

- greater plant vigour
- greater root biomass
- more nitrogen-fixing nodules
- higher yield potential



Source: BASF trials, 2007



Source: University of Guelph trial, Stayner, ON, 2013

 **BASF**

We create chemistry

Nodulator® N/T LQ

Liquid Biostacked® soybean Inoculant

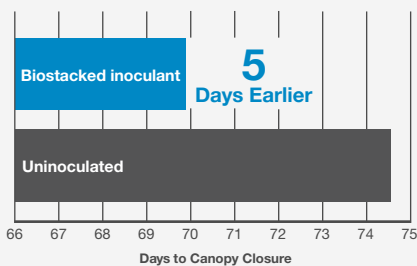
Maintaining diversity

The beneficial bioactive organisms, *Bradyrhizobium japonicum* and *Bacillus amyloliquefaciens* are common to Canadian soils. No BASF inoculant products sold in Canada contain genetically modified material.

Performance

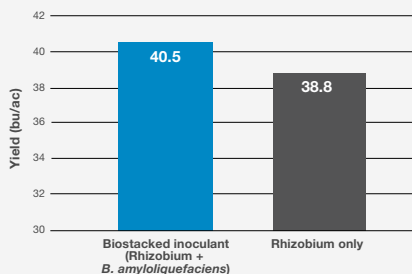
Research shows that Nodulator N/T promotes greater plant vigour, faster canopy closure and higher yield potential.

Days to canopy closure: Biostacked inoculant vs uninoculated



Source: BASF, 4 Station Years (n sites x n years)

Higher yield potential: Rhizobium only vs Biostacked inoculant



Source: BASF, 76 Station Years (n sites x n years)

For more information

AgSolutions Customer Care
Call: 1-877-371-BASF (2273)

Visit: agsolutions.ca

Application rates

One case will treat 200 units of seed.

On-seed use: 77 ml of rhizobium/bacillus mixture per 27.2 kg of seed.

In-furrow use: 30 ml of rhizobium/bacillus mixture per 304 meters of row.

Directions for use

Prior to application:

Add the contents of the enclosed bottle of liquid *Bacillus amyloliquefaciens* (100 ml) to the larger rhizobium liquid inoculant bladder (3.1 L). Shake well.

On-seed application: (see label for details)

Planter box: Apply on seed at the specified rate.

Bulk seed:

1. Remove cap. Insert gasket into valve body. Attach flow valve and hose to bladder.
2. Invert bladder above treatment area so the end of the hose is just above the seed.
3. Adjust flow valve to match output of grain auger (see label).
4. To ensure adequate mixing, run auger at 50% capacity.
5. Assess the application rate during inoculation to ensure correct flow rate.

In-furrow application: (see label for details)

1. Ensure the liquid application machinery is fully flushed before adding inoculant.
2. Configure the sprayer for optimal in-furrow application.
3. Shake the product well to re-suspend any settled out components. Pour the complete contents into the spray tank. Adjust the volume to the required level using cool, dechlorinated water.
4. The application rate per acre will vary according to row width.

Application tips

When used with a seed treatment and an extender, Nodulator N/T has a 30 day on-seed survivability.

Plant all treated seed as soon as possible, within 10 days following inoculation.

Ensure that the inoculant is thoroughly mixed prior to use.

For in-furrow application, ensure spray tank volume is periodically agitated.

Use diluted tank mix within 24 hours, and do not allow mix to exceed 25°C.

Follow crops

No follow-crop restrictions.

Seed treatment compatibility

Some seed treatments are harmful to liquid inoculants.

Please see respective product labels or call **AgSolutions®** Customer Care for further information.

Always read and follow label directions.

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