

Nodulator PRO inoculant system

technology sheet

BioStacked® pre-inoculant with longer, on-seed survivability.

- BioStacked system provides nitrogen-fixing rhizobium and a plant-growth-promoting rhizo-bacterium.
- 60 day on-seed survivability.
- Low application volume and pre-inoculant convenience.
- New bladder system packaging to support longer days-on-seed.

Bioactive ingredients

Bradyrhizobium japonicum
Bacillus subtilis (MBI 600 strain)

Formulation

Liquid

One case contains

4 x 0.74 L PRO inoculant
4 x 0.74 L PRO conditioner
or
1 x 3 L PRO inoculant
1 x 3 L PRO conditioner

Sold separately

1, 400 ml bottle Integral

Storage

Protect from temperatures below 2°C and above 15°C.
Do not allow this product to freeze.

Crops

Soybeans

Treatment

For professional application on seed.

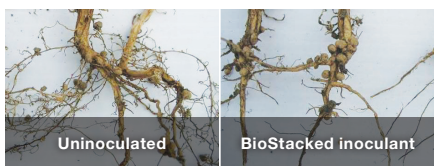
Inoculant activity

Nodulator® PRO contains a minimum of 1×10^{10} viable cells of *Bradyrhizobium japonicum* per gram.

Sold separately: Integral®, a PMRA registered bio-fungicide, contains 0.18% *Bacillus subtilis*, strain MBI 600 (no less than 2.2×10^{10} viable spores per ml) and is required for seedling disease suppression.

Research shows that BioStacked soybean inoculants promote:

- greater plant vigour
- greater root biomass
- more nitrogen-fixing nodules
- suppression of seedling diseases caused by *Rhizoctonia* spp. and *Fusarium* spp.¹
- higher yield potential



Source: Becker Underwood trials, 2007



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

¹ Biological fungicide activity is a non-CFIA registered label claim in Canada.

 **Nodulator® PRO**
The Professional **BioStacked** inoculant System

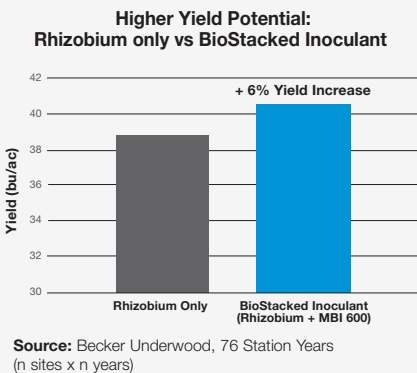
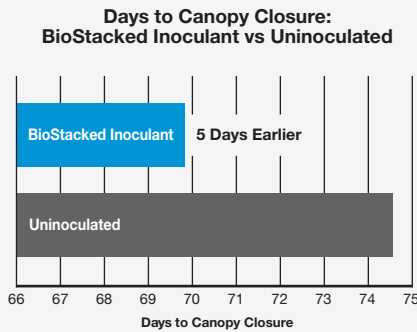
 **BASF**
The Chemical Company

Sustainability

The beneficial bioactive organisms, *Bradyrhizobium japonicum* and the MBI 600 strain of *Bacillus subtilis* are common to Canadian soils. No BASF inoculant products sold in Canada contain genetically modified material.

Performance

Research shows that Nodulator PRO promotes greater plant vigor, faster canopy closure and higher yield potential.



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.

	Nodulator PRO Inoculant System	Integral
rate per 100 kg seed	130 ml *	9 ml

*Please refer to the product label for application rates without pesticides, as 139 ml/100 kg is not sufficient for even seed coverage and requires additional liquid volume (water and/or pesticide).

Directions for use

When applying as a stand-alone treatment (no seed treatment)

With slurry tank agitator (or re-circulation pump) turned on, thoroughly mix the Nodulator PRO liquid inoculant with the Nodulator PRO conditioner, Integral and water. Continuous and gentle agitation throughout the mixing and application process will enhance application and survival characteristics.

Calibrate pumps and metering system to apply 326 ml/100 kg to seed.

When applied with additional seed treatment(s)

Nodulator PRO liquid inoculant system for soybean may be applied at a rate of 130 ml/100 kg (2.0 fl oz per 100 lbs) of seed with no additional water as long as the total liquid volume being applied (Nodulator PRO plus all other seed treatment active/polymers/colorants) is at least 326 ml/100 kg (5.0 fl oz per 100 lbs) of seed.

Both a wet sequential (also known as simultaneous), using a separate application tank for the active chemicals/polymers/colorants (preferred), or a tank mix can be used as application methods for this product.

If a tank mix application method is used, do not slurry the mixture for greater than 4 hours prior to application to the seed.

Application tips

Nodulator PRO has a 60 day, on-seed survivability when seed is stored at 18°C.

The non-pesticide containing slurry should ideally be used during the same day of mixing, within a maximum of 24 hours.

It is important that the temperature of the slurry does not exceed 20°C.

Ensure seed is clean to reduce bridging.

Follow crops

No follow-crop restrictions.

Seed treatment compatibility

Seed Treatment	Nodulator PRO Inoculant
ApronMaxx [®] RTA	60 days
CruiserMaxx [®] Vibrance [™] Beans	60 days

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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