

Nodulator® IP Plus

Professional Soybean Preinoculant System

Biostacked® preinoculant system for soybean nodulation and root development.

- Activity by proven *Bradyrhizobium japonicum* and dual strain biofungicide
- New and exclusive to BASF patented bladder technology improves stability and vitality of biologicals
- BASF patented biologicals have impact on root architecture and plant development during key crop establishment timing

Nodulator IP Plus Bioactive ingredient

Bradyrhizobium japonicum
(strain 532C)

Formulation

Liquid

Velondis Plus biofungicide Bioactive ingredients

Bacillus amyloliquefaciens (strain MBI 600)
Bacillus subtilis (strain BU 1814)

Formulation

Liquid

Package options

200 SU

3.0 L inoculant bladder
3.0 L conditioner bladder
0.2 L Velondis Plus bottle¹

400 SU

6.0 L inoculant bladder
6.0 L conditioner bladder
0.4 L Velondis Plus bottle¹

Storage

Protect cased product from temperatures below 2°C and above 10°C. Do not allow this product to freeze.

Improved nitrogen fixation



Untreated

Nodulator
PRO 100

Nodulator
IP Plus

Source: BASF Greenhouse Trials, 2022

Crops

Soybeans

Treatment

applied on-seed exclusively by bulk seed treaters

Benefits

Nodulator® IP Plus preinoculant provides these benefits:

- Guaranteed minimum of 1×10^{10} viable cells of rhizobium CFU per gram
- Velondis® Plus biofungicide for suppression of seedling diseases caused by *Fusarium* spp., *Rhizoctonia solani* and *Pythium ultimum*²
- Applying Nodulator IP Plus³ can result in 16% more nodule production compared to base treatment alone⁴

Application rates

One 200 SU case will treat 4,536 kg (10,000 lbs) of seed.

One 400 SU case will treat 9,072 kg (20,000 lbs) of seed.

	Nodulator IP Plus (inoculant + conditioner)	Velondis Plus
Rate per 100 kg seed	130 ml ⁵	4.4 ml

¹ Packaged separately.

² The biological fungicide activity of Velondis Plus is a PMRA registered label claim in Canada.

³ Nodulator IP Plus is an on-seed application of Nodulator IP Plus professional preinoculant system and Velondis Plus biofungicide seed treatment.

⁴ Grower Applied Strip Trials, 2018.

⁵ Please refer to the product label for application rates without pesticides, as 134.4 ml/100 kg is not sufficient for even seed coverage and requires additional liquid volume (water and/or pesticide).

BASF

We create chemistry

Nodulator® IP Plus

Professional Soybean Preinoculant System

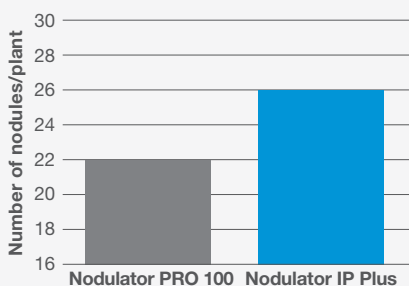
Maintaining diversity

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

Biostacked advantage

Achieves confident performance in nodulation, nitrogen fixation and root strength in the vital crop establishment stage through variable spring seeding conditions experienced in Canada.

Improved nodule formation



Source: Grower Applied Strip Trials, MB, 2018, n=6

For more information:

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

Visit **agsolutions.ca**

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 appropriate volumes of Nodulator IP Plus liquid inoculant with the Nodulator IP Plus conditioner, then add the separately packaged Velondis Plus biofungicide and non-chlorinated⁶ water. Continuous and gentle agitation throughout the mixing and application process will enhance application and survival characteristics.

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

⁶ Municipal water sources do contain chlorine; however, it can be used in combination with biologicals if allowed to sit exposed to the environment (e.g. in open tank) for a minimum of 24 hours to allow for chlorine to gas off.

When applied with additional seed treatment(s)

Nodulator IP Plus preinoculant and Velondis Plus for soybean must be applied at a rate of 134.4 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 IP Plus, plus all other seed treatment actives/polymers/colourants) 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/colourants (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.

For extended days on seed, **we only recommend** a wet sequential (also known as simultaneous) application and keeping the inoculant in a separate application tank. In this tank, the inoculant must be applied within 24 hours.

Application tips

The non-pesticide containing slurry should ideally be used during the same day of mixing, within a maximum of 24 hours. The temperature of the slurry should not exceed 20°C.

Clean seed is essential to reduce bridging.

For maximum survival of biological components, store treated seed in a cool (can be below freezing), dry, covered and unheated storage area close to floor level.

On-seed compatibility of Nodulator IP Plus preinoculant plus Velondis Plus biofungicide is dependent on application method and temperature at which seed is packaged and stored.

Follow crops

No follow-crop restrictions.

Seed treatment compatibility

Some seed treatments are harmful to liquid inoculants and the application method can affect the days-on-seed compatibility.

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

Always read and follow label directions.

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