



Nodulator PRO

Liquid Inoculant System

Professional Application Guidelines

Nodulator® PRO Liquid Inoculant System is for soybean growers looking for the convenience of bulk soybean seed, treated at a professional retail seed treatment site and are in need of a high quality BioStacked® pre-inoculant product with longer days-on-seed survival of rhizobia. In order to provide the grower with all the BioStacked benefits of the Nodulator PRO Liquid Inoculant System, it is important that all three components are applied to the seed. The unique bladder of inoculant is the base of the application, the bladder of conditioner extends the days on seed and the bottle of Integral® which is packaged in a separate case is required for seedling disease suppression.

Product features

- Nodulator PRO is a liquid BioStacked inoculant system for soybeans that includes the benefits of *Bradyrhizobium japonicum* and “partial suppression of seedling disease complex caused by *Rhizoctonia* spp. and *Fusarium* spp.” when used in combination with PMRA-registered Integral, a liquid bio-fungicide.
- A total application rate of 139 ml/100 kg of seed (130 ml Nodulator PRO plus 9 ml of Integral) provides better performance through treatment equipment with no bridging of seed, and more convenience.
- Convenient days-on-seed rhizobia survival with popular fungicide and insecticide packages.
- New and exclusive package and bladder system. The inner lining developed to provide very high oxygen permeability for extended rhizobia survival, and the outer liner layer provided for protection.

Packaging and application rate

	Nodulator PRO Liquid Inoculant System	Integral
Case Size	4 x 0.74 L PRO Liquid Inoculant + 4 x 0.74 L PRO Conditioner or 1 x 3 L PRO Liquid Inoculant + 1 x 3 L PRO Conditioner	1 x 400 ml bottle
140k units/case	200	200
Rate/100 kg seed	130 ml*	9 ml

*Please refer to label and section on the following page 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).



Application guidelines & best practices

Store this product between 2°C to 15°C and away from direct sunlight while it is in retail packaging. **Do not allow this product to freeze.** Do not use inoculant that is past expiry date or that has not been correctly stored. Products must be used (applied to the seed) within 24 hours of being opened.

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

Prepare the slurry as directed on label:

- 2.96 L Nodulator® PRO Liquid Inoculant (4 x 0.74 L bladders) plus 4 x 0.74 L of Nodulator PRO Conditioner
- 1 x 400 ml bottle of Integral®
- 8.8 L cool non-chlorinated water

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. This non-pesticide containing slurry should ideally be used during the same day of mixing, and within a **maximum of 24 hours**. It is important that the temperature of the slurry does not exceed 20°C.

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

*NOTE: While you may apply the Nodulator PRO Liquid Inoculant System for soybean at a rate of as low as 139 ml/100 kg (2.0 fl oz per 100 lbs) of seed without the addition of water, both the evenness of seed coverage and rhizobial survival will be enhanced when total volume of liquid applied to the seed is 326 ml/100 kg (5.0 fl oz per 100 lbs) of seed.

Storage of treated seed

Store treated seed with the Nodulator PRO Liquid Inoculant System **as cool as possible** (<0°C to 20°C maximum) and away from direct sunlight. For more uniform temperature control, store treated seed as close to floor level as possible in a dry, covered and unheated storage area. If seed is not planted within maximum safe planting window, the seed must be re-inoculated.

Guidance notes

- Ensure slurry is made up correctly, and that no additional “non-approved” components are added.
- Use complete inoculant units (do not store “partially used” inoculant bladders for greater than 24 hours, and even in such situations store at 5°C to 10°C during this period).
- If pesticides are used (see chart on next page), ensure you follow the planting window recommendations.
- Ensure seed is clean to reduce bridging.
- Load treated seed into gravity wagon, tenders, etc. as needed. Occasional movement of the load head will reduce dry down time/potential for seed bridging.
- Attach Integral and Nodulator PRO Liquid Inoculant System seed tags to treated unit as per regulatory requirements.
- Lightly tarp treated seed and store in shaded/cool area until needed.
- At the end of the day rinse (with warm water – no detergents) the tank, pump and lines.

Please note that this product is regulated by the CFIA under the Fertilizer’s Act. As such, CFIA agents have the right to take product and treated seed to ensure compliance with regulatory standards.

When applying in combination with a seed treatment

If applied with additional seed treatment(s), the 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 Liquid Inoculant System for soybean 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.

For updated seed treatment compatibility or more information on Nodulator PRO contact your BASF Sales Representative, visit agsolutions.ca or call **AgSolutions**® Customer Care at 1-877-371-BASF (2273).



Always read and follow label directions.

AgSolutions is a registered trade-mark of BASF Corporation; NODULATOR, BIOSTACKED and INTEGRAL are registered trade-marks of BASF, all used with permission by BASF Canada Inc. © 2013 BASF Canada Inc.