



BUILT BY LISTENING. BACKED BY SCIENCE.

## NoduleN™

**NoduleN™ is a legume inoculant containing effective strains of rhizobia, designed to enhance nitrogen fixation in legume plants. It improves crop yields and soil health.**



LEGUME INOCULANT

### What is NoduleN™?

NoduleN™ is a legume inoculant developed by New Edge Microbials (NEM) containing effective strains of rhizobia bacteria. It enhances nitrogen fixation in legume plants, improving crop yields and soil health by converting atmospheric nitrogen into plant-available forms. NoduleN™ is most effectively applied as a slurry seed treatment or through liquid injection methods.

#### Can NoduleN™ be applied dry directly to seed?:

- Dry direct application of NoduleN™ to seed can give effective nodulation where compared to TagTeam®.
- For best results, apply a double rate of NoduleN™ and be sure to break any peat clumps before application.

#### Efficacy of NoduleN™ applied dry directly to seeds:

Results from field trials performed during the 2024 winter legume season across NSW, VIC, SA and WA, show that NoduleN™ applied dry directly to seed can effectively nodulate lentils (Fig. 1.), lupins (Fig. 2.), and faba beans (Fig. 3.). These trials showed that

average nodule numbers per plant after treatment with NoduleN™ applied dry directly to the seed at a standard or double rate performed similarly compared to TagTeam®.

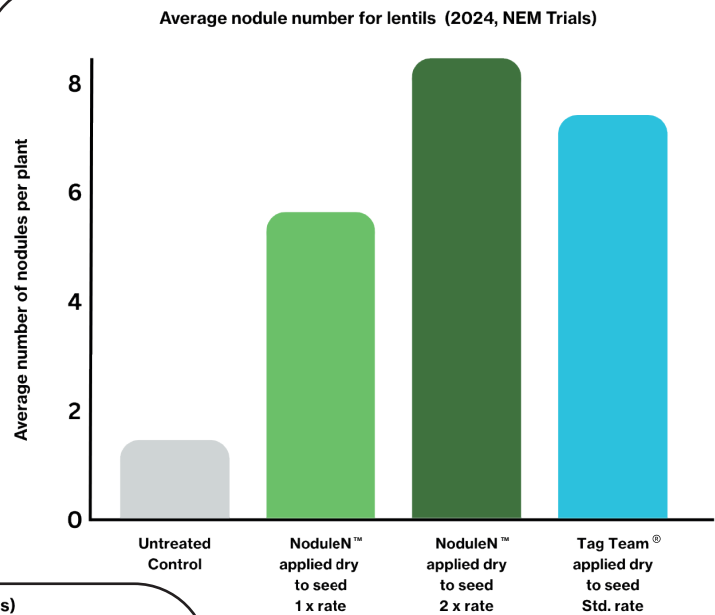
#### How to dry apply NoduleN™ directly to seed?

If applying NoduleN™ dry, GRDC recommend that you use a double rate. Apply NoduleN™ peat inoculant directly to seed when transferring seed from the bin to the truck, or from the truck to the tank or seed cart using an appropriate applicator such as the AgSpray Dry Peat Applicator. For best results, the applicator must be calibrated to the flow of the auger.

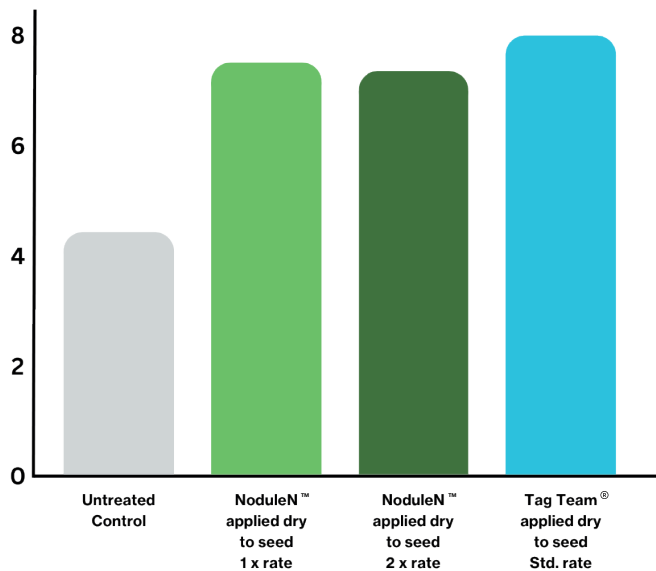
NoduleN™ applied dry should flow continuously and evenly directly onto the seed in the hopper at the bottom of the auger, straight into the grain flow as it's moving into the auger.

NoduleN™ contains a higher moisture content to maintain bacterial viability and maximise performance. On rare occasions, small clumps may form due to this moisture level; these can be easily broken apart by hand prior to application.

**Figure 1.** Average nodule number for lentils treated with either NoduleN™ applied dry direct to seed at the standard (1 x) rate or double (2 x) rate\*, and TagTeam® applied at the standard (Std.) rate\*\* dry direct to seed\*\*\*.



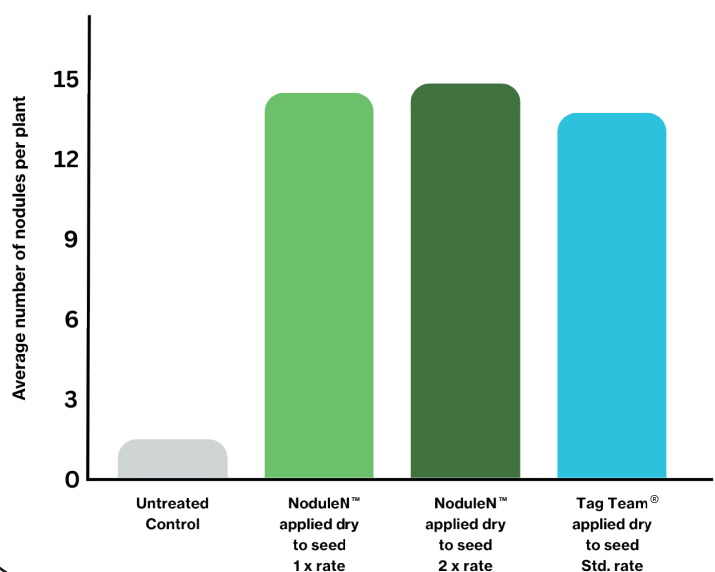
Average nodule number for lupins (2024, NEM Trials)



**Figure 2.** Average nodule number for lupins treated with either NoduleN™ applied dry direct to seed at the standard (1 x) rate or double (2 x) rate\*, and TagTeam® applied at the standard (Std.) rate\*\* dry direct to seed\*\*\*.

**Figure 3.** Average nodule number for faba beans treated with either NoduleN™ applied dry direct to seed at the standard (1 x) rate or double (2 x) rate\*, and TagTeam® applied at the standard (Std.) rate\*\* dry direct to seed\*\*\*.

Average nodule number for faba beans (2024, NEM Trials)



\* Standard (Std.) rate refers to the equivalent of 1 x NoduleN™ Mega pack or 1 x 2.45 kg pack of TagTeam® applied to 1000 kg of faba bean and lupins, or 500 kg of lentils.  
 \*\* TagTeam® is a registered trademark of Novozymes A/S. © 2019 Novozymes.  
 \*\*\* All treatments were applied dry directly to seed as can be a common farm practice. Label directions for the use of these products recommend application of these inoculants as a wet slurry.