

Nodulator® XL Peat

Peat pea and lentil Inoculant

Nodulator® XL LQ

Liquid pea and lentil Inoculant

High-performance inoculant for value and yield potential boosts of 3% to 8% in peas and lentils.¹

- Highly efficient and more active strain of rhizobia
- Selected specifically for proven performance in pea and lentil crops
- Self-adhering peat (SAP) formulation that has eliminated the need for commercial sticking agents
- Easy-to-use liquid (LQ) formulation that can be applied up to 6 hours before seeding or applied in furrow during seeding

Bioactive ingredient

Rhizobium leguminosarum
biovar *viceae*, strain 1435

Formulations

Self-adhering sterile peat
Liquid (on seed or in furrow)

One case contains

Peat: 5 x 1.2 kg packages
Liquid: 3 x 7.5 L bladders

Storage

Do not freeze.
Peat: Store below 20°C.
Liquid: Store between 4-9°C.

Crops²

Peas
Lentils

Treatment

dry, slurry or damp
inoculation on seed

Inoculant activity

The self-adhering peat (SAP) formulation provides a reliable inoculant with the following benefits:

- Nodulator® XL inoculant contains a pea and lentil specific rhizobium (*Rhizobium leguminosarum* biovar *viceae*)
- The rhizobia provide these benefits:
 - Increased efficiency and activity in nodulation due to crop specificity
 - Increased nitrogen fixation with maximized yield potential
- SAP: Guaranteed minimum of 1×10^9 rhizobia per gram
- LQ: Guaranteed minimum of 7.5×10^8 rhizobia per gram
- Nodulator XL outyielded competitive products more than 80% of the time with yield increases of 3%-8% across Western Canada (n=72)¹

¹ Refer to "Increased yield potential: Nodulator XL vs competitor vs uninoculated control" chart.

² Approved and supported for organic production.

Application rates

Nodulator XL Peat: One case will treat 110 bushels of seed. The standard rate of application is 1.2 kg per 600 kg of seed.

Nodulator XL LQ: One case will treat 300 bushels of seed.

Flow valve setting	Inoculant flow rate		Seed/auger flow rate	
	ml/min	fl. oz/min	kg/min	lbs (bu)/min
1	360	12	131	289 (5)
2	860	29	313	690 (11)
3	1,340	45	487	1,074 (18)
4	1,660	56	604	1,332 (22)
5	1,780	60	647	1,426 (24)
6	2,030	68	738	1,627 (30)



Uninoculated peas

Nodulator XL peas

Source: Grower Applied Strip Trials, Southern AB, 2012



Uninoculated lentils

Nodulator XL lentils

Source: BASF Small Plot Trials, Lethbridge, AB, 2013

BASF

We create chemistry

Nodulator[®] XL LQ Nodulator[®] XL Peat

Liquid pea and lentil Inoculant

Peat pea and lentil Inoculant

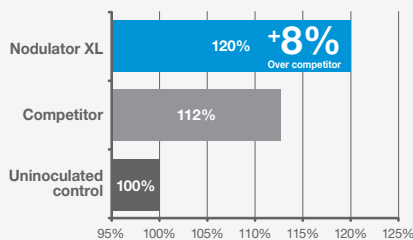
Maintaining diversity

The organism formulated into this product is classified as *Rhizobium leguminosarum* biovar *viceae*. All of the organisms used by BASF inoculants are common to Canadian soils. No BASF inoculant products sold in Canada contain genetically modified organisms.

Performance

Research shows that Nodulator XL formulations, in peas and lentils, boost yields up to 8% over the competitor.

Increased yield potential: Nodulator XL vs competitor vs uninoculated control



Source: Third-Party Research Trials, 87 station years (peas) and 84 station years (lentils) - n sites x n years

For more information:

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

Visit **agsolutions.ca**

Directions for use

Nodulator XL Peat	Nodulator XL LQ
<p>After opening the pack, work gently between fingers to disperse contents. Addition of water at the time of application will optimize the activity of the integral sticker, resulting in even seed coverage with the inoculant.</p> <p>Application methods:</p> <p>Slurry application – Add complete pack contents to approximately 2 L of clean, dechlorinated water and stir well in a clean container to form a lump-free slurry. Do not allow slurry to settle out. Pour onto the seed and mix thoroughly to ensure the seeds are evenly coated. Allow seed to dry before further handling.</p> <p>Damp inoculation – Apply just enough water to slightly dampen seed (2 ml/kg). Mix the damp seed thoroughly with the inoculant so that they are evenly coated.</p> <p>Dry inoculation – Pour the correct amount of inoculant onto thin layers of seed in the drill hopper and mix thoroughly to evenly coat seed. For bulk seed handling systems, the inoculant can be metered directly onto augured seed.</p>	<p>For on-seed use</p> <ol style="list-style-type: none">1. Shake 7.5 L bladder for a minimum of 30 seconds before using.2. Replace bladder lid with hose kit.3. Invert bladder above treatment area so the end of the hose is just above the seed (for accurate application rates, ensure hose is straight when dispensing inoculant).4. Adjust flow valve to regulate the recommended application rate (see table on page 50).5. To ensure adequate mixing of seed and inoculant, do not run auger at greater than HALF capacity.6. Assess the application rate several times during inoculation to ensure correct target flow rate. <p>Note: Product formulated to be applied directly to seed. See label for in-furrow use directions.</p>

Application tips

Nodulator XL Peat: When applied as directed, the product has a 24-hour on-seed survivability. It is recommended to sow seeds within 4 to 6 hours of inoculation. If not sown within 24 hours, seed must be re-inoculated. If seed is of low moisture content, use either slurry or damp application methods.

Nodulator XL LQ: Inoculated seed should be planted within 6 hours after application. Increased volume of inoculant per bushel of seed may be advantageous. Under adverse or stressful planting conditions (hot, dry field conditions), an increased application rate is suggested.

Follow crops

No follow-crop restrictions.

Seed treatment compatibility

For details on seed treatment compatibility, see the Pea Seed Applied Pesticide Compatibility Information and Lentil Seed Applied Pesticide Compatibility Information documents available on **agsolutions.ca**, contact your local BASF **AgSolutions[®]** Grower or Retail Representative or call **AgSolutions** Customer Care at 1-877-371-BASF (2273).

Always read and follow label directions.

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