

# Nodulator XL liquid inoculant

## technology sheet

**High-performance inoculant delivering outstanding value and yield boosts of 3% to 8% in peas and lentils.**

- Highly efficient and more active strain of rhizobia.
- Convenient and easy-to-use liquid product that can be applied directly to seed.
- Can be applied up to six hours prior to seeding.
- The result is increased yield potential for your crops.

### Bioactive ingredient

*Rhizobium leguminosarum*  
biovar *viceae*, strain 1435

### Formulation

Liquid

### One case contains

3 x 7.5 L bladders

### Storage

Store inoculant in a cool (4 to 9°C), dry place, out of direct sunlight. Do not allow to freeze.

### Crops

Lentils  
Peas

### Treatment

Apply directly on seed.

### Inoculant activity

The convenient liquid formulation provides a reliable inoculant that is guaranteed to contain a minimum of  $7.5 \times 10^8$  rhizobia per gram.

Nodulator<sup>®</sup> XL inoculant contains *Rhizobium leguminosarum* biovar *viceae*, a highly efficient, more active strain of rhizobium, selected to perform on pea and lentil crops for increased yield potential.

The rhizobia help to maximize nodulation resulting in increased fixation of nitrogen for higher yield and protein potential.

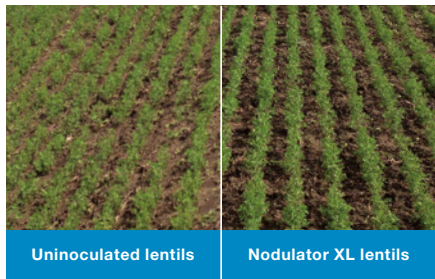
In 72 combined research trials over multiple years in Western Canada, Nodulator XL outyielded competitive products more than 80% of the time. Trial results showed yield increases of 3% to 8% and more, when compared to yields from competitive products.



Uninoculated peas

Nodulator XL peas

Source: BASF trials, Southern AB, 2012



Uninoculated lentils

Nodulator XL lentils

Source: BASF research farm, Lethbridge, AB, 2013

# Nodulator<sup>®</sup> XL LQ

Liquid pea and lentil Inoculant

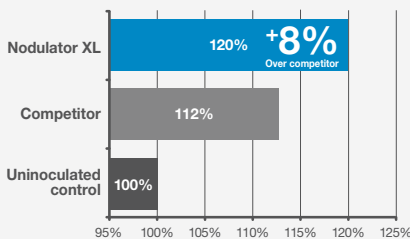
## Maintaining diversity

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, in peas and lentils, boosts yields up to 8% over the competitor.

Increased yield: Nodulator XL vs competitor vs uninoculated control



Source: Independently generated field data from 87 station years (peas) and 84 station years (lentils). (n sites x n years)

## For more information

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

Visit: [agsolutions.ca](http://agsolutions.ca)

## Application rates

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)

## Directions for use

1. Shake 7.5 L bladder well before using for a minimum of 30 seconds.
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 above).
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.
7. Product formulated to be applied directly to seed.

## Application tips

Inoculated seed should be planted within six hours after application.

Increased volume of inoculant per bushel of seed is advantageous. Under adverse or stressful planting conditions (hot, dry field conditions) an increased inoculant application rate is suggested.

## Follow crops

No follow-crop restrictions.

## Seed treatment compatibility

Some seed treatments are harmful to liquid inoculants.

Please see respective product labels or call **AgSolutions<sup>®</sup>** Customer Care for further information.

## Always read and follow label directions.

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