

Nodulator[®] XL LQ

Liquid pea and lentil Inoculant

Registration Number 2011032S Fertilizers Act

To inoculate 2,728 kg (100 bushels) of seed

Net contents:

7.5 kg (7.5 L)

DIRECTIONS FOR ON-SEED USE

APPLICATION RATE - 75 mL (2.5 fl. oz.) of inoculant (75 grams) per 27.2 kg (60 lbs.) of seed.

The application rate suggested is the minimum; larger volumes of inoculant per bushel of seed have been reported to be advantageous.

1. SHAKE WELL 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 below).
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.

ON-SEED APPLICATION TABLE

Flow Value 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	1340	45	487	1074 (18)
4	1660	56	604	1332 (22)
5	1780	60	647	1426 (24)
6	2030	68	738	1627 (30)

DIRECTIONS FOR IN-FURROW USE

Before using this product, read all the following instructions carefully.

Use 30 mL of this product (30 g) per 304 meters (997 ft) of row. The concentrate must be diluted with cool, clean and dechlorinated water and applied at a rate (L/ha) as recommended by the manufacturer of the liquid fertilizer application kit or sprayer. For example, at 30 cm (12 inch) row spacing, 3236 mL/ha (1309 mL/ac) of inoculant is required. At an application rate of 46.7 L/ha (5 gal./ac) the concentrate will require 43.46L of water. Please refer to the table below for recommended application rates, by row spacing, of inoculant concentrate.

IN FURROW APPLICATION TABLE

Row Width	Recommended application rate	Concentrate unit treats
15.2 cm (6")	6492 mL/ha (2627 mL/acre)	1.2 ha (2.9 acres)
17.8 cm (7")	5544 mL/ha (2244 mL/acre)	1.4 ha (3.3 acres)
20.3 cm (8")	4861 mL/ha (1967 mL/acre)	1.5 ha (3.8 acres)
22.9 cm (9")	4309 mL/ha (1744 mL/acre)	1.7 ha (4.3 acres)
25.4 cm (10")	3885 mL/ha (1572 mL/acre)	1.9 ha (4.8 acres)
27.9 cm (11")	3537 mL/ha (1431 mL/acre)	2.1 ha (5.2 acres)
30.5 cm (12")	3236 mL/ha (1309 mL/acre)	2.3 ha (5.7 acres)

A. CLEAN. Ensure that the liquid application machinery is fully flushed of chemical residues before adding inoculant to spray tanks.

B. CONFIGURE. Configure the liquid fertilizer application kit or sprayer, if necessary, for in-furrow application. Select and install an appropriate flow regulator (orifice) disk in order to achieve a constant, uninterrupted stream of liquid into the furrow. Carefully adjust the position and flow of the liquid inoculant so that it falls directly onto the seed surface prior to covering in the furrow. Product efficacy may be limited if the inoculant is either applied above, or to the side of the seed in the furrow.

C. MIX. Prior to use, shake the product well in order to re-suspend any settled out components. Do not open the unit until required. Pour the complete contents into the liquid fertilizer tank. Adjust the volume of the tank to the required level using cool, dechlorinated water (Refer to In-Furrow Application Table above). Ensure that the inoculant is thoroughly mixed prior to use. To avoid any settling out of the nitrogen fixing bacteria, ensure that the liquid fertilizer tank volume is periodically agitated. The diluted inoculant must be used within 24 hours. Do not allow diluted tank mix to exceed 25°C.

D. SELECT RATE. The application rate per acre will vary according to row width. For guidance regarding specific application details and treatable areas refer to In-Furrow Application Table above.

PRECAUTIONS

Ensure thorough ventilation during use. Wear chemical resistant gloves, safety glasses with side shields, and closed work clothing. Do not eat, drink or smoke while using. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST-AID MEASURES

If inhaled: Remain calm, remove to fresh air.

If on skin: Wash thoroughly with soap and water.

If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed: Rinse mouth and then drink plenty of water.

SEED TREATMENT COMPATIBILITY

Some seed treatments are harmful to liquid inoculants. Contact your dealer/manufacturer for current details. Please observe planting window recommendations for optimal responses.

STORAGE/PRECAUTIONS

Store between 4-9°C (38-48°F). Do not allow product to freeze. Ensure that inoculant is stored correctly in the field prior to use. Once opened, use within 24 hours. Plant seed immediately after inoculation. If seed is not planted within 4-6 hours they must be re-inoculated. Do not use inoculant that is past its expiry date or that has not been correctly stored. Unless otherwise directed, do not mix inoculant with caustic fertilizers or pesticides. If soils are especially dry at planting, any risk of damage to the inoculant can be minimized through light irrigation. Under adverse or stress planting conditions (hot, dry field conditions) it is suggested to increase the inoculant application rate. For first-time fields, it is recommended that peat-based or granular inoculants be used (contact dealer for more information).

GHS: The product does not require a hazard warning label in accordance with GHS criteria.

GUARANTEE

This product contains a minimum of 7.5×10^8 viable cells of *Rhizobium leguminosarum* biovar *viceae* STRAIN 1435 CFU/g.

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