

NODULATOR® LQ

Liquid soybean inoculant for in furrow

Bradyrhizobium japonicum



Registration Number 2006003A Fertilizers Act

Sufficient to treat 4544 kg (10 000 lbs. / 200 x 50 lb. units) of Seed (as on-seed or in furrow treatment)

Net contents:

12.4 kg (12.4 L)

DIRECTIONS FOR IN-FURROW USE

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

APPLICATION RATE: 29 mL of this product (29 g) per 304 meters of row. The concentrate must be diluted with cool, clean water and applied as indicated in the table below. Use the table to estimate application volumes for individual row widths.

Row Width	Recommended application rate*	Concentrate unit treats
38 cm (15")	2560 mL/ha (1035 mL/acre)	4.8 ha (12 acres)
51 cm (20")	1900 mL/ha (769 mL/acre)	6.5 ha (16 acres)
76 cm (30")	1240 mL/ha (503 mL/acre)	10.0 ha (24.5 acres)
91 cm (36")	1100 mL/ha (444 mL/acre)	11.3 ha (28 acres)

* The concentrate liquid should be diluted with water and applied at 45-90 litres per hectare for low-volume sprayers, or 90-180 litres per hectare for larger sprayers. For a known row width, ensure the equipment is calibrated to deliver the correct application volume.

IN-FURROW APPLICATION

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

B. CONFIGURE. Configure the sprayer 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 spray tank. Adjust the volume of the spray 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 spray 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.

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

DIRECTIONS FOR ON-SEED USE

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

- **PLANTER BOX APPLICATION:** Shake the product well, and apply to the seed at the rate of 125mL/45.45kg (2x50 lb).
- **BULK SEED APPLICATION:**
 1. Remove cap and insert gasket into valve body. Attach flow valve and hose.
 2. 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).
 3. Adjust flow valve to match output of grain auger. (See table below).
 4. To ensure adequate mixing of seed and inoculant it is recommended to run auger at 50% capacity.
 5. Assess the application rate several times during inoculation to ensure correct target flow rate.

Plant all treated seed as soon as possible, and within a maximum of 10 days following inoculation. Keep treated seed as cool as possible (1 - 20°C).

Flow Value Setting	Inoculant Flow Rate	Seed/ Auger Flow Rate		
	mL/min	kg/min	lbs/min	Approx. bu (50 lb. units)/min
1	360	131	286	5(6)
2	860	313	690	11(14)
3	1340	487	1071	18(21)
4	1660	604	1333	22(27)
5	1780	647	1428	24(28)
6	2030	738	1619	27(32)

STORAGE/PRECAUTIONS

Store below 20°C. 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 as soon as possible after inoculation and within the maximum stated period above. 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.

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

GAURANTEE

This product contains a minimum of 3.0×10^9 viable cells of *Bradyrhizobium japonicum* per gram.

Warranty Disclaimer. BASF Canada Inc. ("BASF") warrants that this product conforms to the specifications set out on this label. BASF, its affiliates and the sellers of this product MAKE NO OTHER REPRESENTATIONS, WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE CONDITION, QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THIS PRODUCT.

Limitation of Remedies. The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories), shall be limited to, at BASF's election, one of the following: (1) replacement of the amount of product used; or (2) refund of the purchase price paid for the product; PROVIDED THAT BASF's provision of (1) or (2) is conditioned on its first being promptly notified of such loss or damage in writing. BASF, its affiliates and the sellers of this product SHALL NOT BE LIABLE to the buyer or any other party claiming by, through, or under the buyer for any other losses or damages resulting or relating to this product, including but not limited to any DIRECT, INDIRECT, SPECIAL, PUNITIVE, ECONOMIC, INCIDENTAL, OR CONSEQUENTIAL DAMAGES or loss of profits, whether in contract, tort or otherwise. BASF and its affiliates neither assume, nor authorize any person to assume for them, any other liability in connection with the sale, storage, use or handling of this product other than expressly set forth herein.

Acknowledgement. IN PURCHASING THIS PRODUCT, THE BUYERS AND ALL PARTIES CLAIMING BY, THROUGH OR UNDER THE BUYER, ACKNOWLEDGE AND AGREE TO THE TERMS AND CONDITIONS SET FORTH ON THIS LABEL AND FURTHER ACKNOWLEDGE THAT THEY FORM PART OF THE CONTRACT OF SALE BETWEEN (i) BASF, ITS AFFILIATES AND ANY OTHER SELLER OF THIS PRODUCT AND (ii) THE BUYER OF THIS PRODUCT.

BASF Canada, 100 Milverton Drive, 5th Floor,
Mississauga, Ontario, L5R 4H1, Canada