

XiteBio[®] PulseRhizo[™]

Liquid Inoculant for Pea, Lentil and Faba Bean

MINIMUM GUARANTEE:

7.2 X 10⁸ viable *Rhizobium leguminosarum* bv. *viciae* cells per gram

- ◇ SHAKE WELL BEFORE USE
- ◇ OPEN PACKAGE ONLY WHEN READY TO USE
- ◇ USE BEFORE EXPIRATION DATE
- ◇ STORE IN COOL PLACE AWAY FROM DIRECT SUN LIGHT AND WIND
- ◇ DO NOT ALLOW TO FREEZE
- ◇ CONTAMINANT FREE

APPLICATION RATE:

-On Seed

75 mL/27 kg

(2.5 fl oz/ 60 lb or 2.1 fl oz/ 50 lb)

-In Furrow

250 mL/ac or 618 mL/ha

(at 12 inch or 30 cm row spacing)

UNIT TREATS:

-On Seed

1,089 kg (2,400 lb)

40 bu (27 kg/60 lb = 1 bu)

-In Furrow

12 acres at 12 inch row spacing

4.9 ha at 30 cm row spacing

NET WEIGHT: 6.6 lb (3.0 kg)

NET CONTENT: 101.44 fl oz (3.0 Liters)

NOT A PLANT FOOD PRODUCT

DIRECTIONS FOR USE

ON-SEED APPLICATION:

Shake well before use. Settling of bacteria is normal. Shake product to achieve uniform suspension. Protect inoculated seed from sunlight and drying winds. For best results, plant inoculated seed as soon as possible but inoculated seeds should go to ground within 48 hours. Increased volumes of inoculant per bushel of seed may be advantageous under certain agronomic conditions, such as when seeding under stressful soil conditions or when seeding ground with pea, lentil, or faba bean for the first time (virgin land). Dual inoculation (on-seed and in-furrow) may be needed in virgin land, based on recommendations by your local agronomist. Before using the product, read all instructions in the label carefully.

CAUTIONS: Over-application may initially cause sticky seed. Dried seeds are no longer sticky, but seeds may be clumped or bridged. Break seed clumps before planting. Reduce rate of PulseRhizo™ to get rid of the problem. Some seed-applied chemicals, including fungicides, may be harmful to the inoculant. Contact XiteBio Technologies Inc. for more information.

Continuous Application:

-Remove bag from box. Shake to ensure proper suspension. Attach dosing cap and tube firmly to the bag. Hang directly using reinforced hole, with dosing nozzle at bottom.

-Calibrate the system, to ensure that 2.5 fl oz (75 mL) of PulseRhizo™ flows out of the nozzle in the time that 60 lb (27 kg) seed passes beneath it.

Batch Application:

-Remove bag from box. Shake to ensure proper suspension. Pour the appropriate amount into the measuring cup for the quantity of seed being inoculated.

-Pour over the seed. Apply at a rate of 75 mL/27 kg (2.5 fl oz/bu).

-Mix well to coat all seed evenly.

IN-FURROW APPLICATION:

Shake well before using to ensure an even suspension. Settling of bacteria during storage is normal. Ensure a clean liquid delivery system is used to apply the PulseRhizo™ inoculant. Remove spray tips and replace with appropriate flow regulator orifice disc, and direct the solid stream behind the seed planting assembly in the furrow. Do not apply banded to the side, below, or above the seed.

Mixing procedures: Clean the applicator tank and empty the correct amount of PulseRhizo™ liquid inoculant to be applied directly into the tank. Fill the tank with the appropriate amount of clean, non-chlorinated water for this amount of inoculant. The addition of the water will mix the product adequately. No agitation is required to maintain a suspension. Use the diluted product within 24 hours. Do not allow the tank mix to exceed 37 °C (100 °F).

Application Procedures: PulseRhizo™ should be applied at a rate of 250 mL/acre (618 mL/ha) at 12 inch (30 cm) row spacing. The rate should be adjusted accordingly for narrower or wider row spacing. The diluted product may be applied at 3 to 20 gallons per ac (28 to 190 liters per ha). Calibrate the flow rate to deliver the correct amount depending on row spacing.

Please See Table Below.

Row Spacing (inches)	Row Spacing (cm)	PulseRhizo™ rate (mL/ac)	PulseRhizo™ rate (mL/ha)	PulseRhizo™ rate (fl oz/ac)	Area treated/bag (ac)	Area treated/bag (ha)
15	38	200	494	6.8	15.0	6.1
12	30	250	618	8.5	12.0	4.9
9	23	333	823	11.3	9.0	3.6