

Optimize[®] XC

liquid LCO promoter technology for

soybean

ATTENTION:

This Specimen label is provided for general information only.

CONTAINS NONPLANT FOOD INGREDIENT(S)

ACTIVE: 10 billion (1×10^{10}) viable cfu/g *Bradyrhizobium japonicum*

1 x 10⁻⁷% lipo-chitooligosaccharides

INERT: Aqueous carrier >99%

SHAKE WELL BEFORE USING.

Read entire label before using this product.

Use only according to label directions.

How it Works

Optimize[®] products combine LCO technology with quality inoculants. The active ingredients in Optimize XC Liquid for Soybean are the bacterium *Bradyrhizobium japonicum* and lipo-chitooligosaccharides (LCO). *Bradyrhizobium japonicum* forms root nodules which convert, or fix, nitrogen in the air into forms the plant can use. The LCO molecule enhances the soil microbial environment to support the plant's nutritional availability, supporting the growth and yield potential of the crop.

One 6.8 fl oz Liquid Additive and one 23.2 fl oz Liquid Bladder will treat 40 units (2,000 lb) of soybean seed.

Application Rate

- Apply at a rate of 1.5 fl oz/100 lb seed (44.4 ml/ 45.4 kg).

For Best Results

- Open package only when ready to use.
- Plant within 120 days of adding to bare soybean seed.

Directions for Use for Continuous Application

- Start preparation of the Optimize XC Liquid for Soybean only when you are ready to apply to seed.
- To ensure an even suspension shake the Liquid Additive and Liquid Bladder well. Settling of bacteria during storage is normal.
- Add the Liquid Additive into the Liquid Bladder, which contains the inoculants. Close the Liquid Bladder cap and agitate the premix.
- Pour the contents of the Liquid Bladder into the treater.
- Do not leave Optimize XC Liquid for Soybean premix standing in treater mix tank for more than 24 hours if applied without a seed treatment.

- Apply to the seed as soon as possible.
- Calibrate the system to ensure that 1.5 fl oz (44.4 ml) of Optimize XC Liquid for Soybean flows out of the nozzle in the time that 100 lb (45.4 kg) of seed passes beneath it.

Seed Treatment Recommendations

- If used with seed treatments, apply recommended rate to Optimize XC Liquid for Soybean.
- We do not recommend the use of additional water, polymers, or dyes beyond what is required with the seed treatment.
- Application with other seed treatments is possible, but may reduce the planting window. For up-to-date pesticide compatibility information, please call Novozymes at 1-888-744-5662.

Double inoculation, the act of using a double application of a rhizobial inoculant, is recommended in certain soil conditions (such as when planting on land previously used for pasture or planting soybean for the first time). Double inoculation can be achieved by application of any combination of liquids, peat powders, or furrow-applied liquid or granule rhizobial inoculants that are labeled for the target crop.

Applicators and Other Handlers

The active ingredients in Optimize XC Liquid for Soybean are *Bradyrhizobium japonicum* and lipo-chitooligosaccharide. Use appropriate personal protective equipment (PPE) to reduce exposure. Eye or skin contact, inhalation, or ingestion should be avoided. Wear standard protective clothing and equipment including gloves, and safety glasses. Ensure adequate ventilation. Where exposure through inhalation may occur, use respiratory protective equipment. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

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Storage and Disposal

- Store bags under cool and dry conditions, avoid temperatures consistently over 30°C/86°F away from sunlight and direct heat sources.
- Do not allow to freeze.
- Minimize temperature fluctuations.
- Use before the expiration date.

Unused Optimize XC Liquid for Soybean and Optimize XC Liquid for Soybean inoculated seed should be disposed of in accordance with applicable federal, state and local requirements, and should not be used for food, feed, or oil purposes.

Information regarding the contents and levels of metals in this product is available on the internet at: www.aapfco.org/metals.html

Limits of Liability and Warranty

Novozymes warrants that this product contains a minimum number of *Bradyrhizobium japonicum* viable cells and a minimum concentration of lipo-chitooligosaccharides as specified on this label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NOVOZYMES MAKES NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE, INFRINGEMENT (ALONE OR IN COMBINATION WITH OTHER SEED TREATMENT PRODUCTS) OR MERCHANTABILITY. Novozymes limited warranty is also subject to the inherent risks, conditions, and limitations stated herein.

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