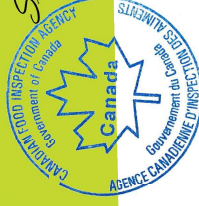


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# Optimize® FXC DS <sup>Liquid</sup>

## LCO promoter technology for



**Net Contents**  
2.01 L (68 us fl oz) Component A  
6.87 L (232 us fl oz) Component B

**Net Weight**  
9.5 kg (21 lbs)

**Carton Treats**  
400 units or 56,000,000\* seeds

\*Based on 140,000 seeds per unit, a unit is based on 2,800 seeds per pound.

Optimize® FXC DS contains two components (A and B) in separate containers, combining LCO Liquid Additive with an industry approved *Bradyrhizobia* inoculant.

### **GUARANTEED MINIMUM ANALYSIS**

Component A  
2.66 x 10<sup>10</sup>% lipo-chitooligosaccharide (LCO)

Component B  
1 x 10<sup>10</sup> cfu/g *Bradyrhizobium japonicum*

Read the entire label before using this product.  
Use only according to label directions.

### **How it Works**

Component A contains the LCO and has multiple modes of action that stimulate growth and nodulation of soybean roots. Component B contains *Bradyrhizobium japonicum*. Optimize® FXC DS promotes nodulation and colonization of *Bradyrhizobium japonicum* on the root. Additionally, Optimize® FXC DS stimulates germination of mycorrhizal spores and increases root growth. The LCO and mycorrhizal spores form a beneficial fungi that colonize plant roots and can form networks in the soil. Plant roots recognize LCO and other signals produced by the germinating mycorrhizal spores and *Bradyrhizobium* to stimulate root growth. Root growth is stimulated, which allows the roots to support plant growth and yield. These modes of action support the growth and yield potential of the crop.

- Promotes nodulation and colonization of *Bradyrhizobium* on the root.
- Stimulates germination of mycorrhizal spores.
- Enhances interactions between plant roots and microbes which increases root growth as well as nutrient and water uptake through the roots.
- Increases yield potential.
- LCO increases root growth and branching within the plant thereby enhancing root system and nutrient and water uptake.
- LCO increases root system and nutrient and water uptake.
- Component B is a liquid microbial inoculant that contains dual strains of *Bradyrhizobium japonicum*. *Bradyrhizobium japonicum* forms root nodules which convert, or fix, nitrogen in the air into forms the plant can use. When combined in Optimize® FXC DS, the LCO and *Bradyrhizobium* combine multiple modes of action to increase yield potential.



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Product of USA

# soybean

# Optimize® FXC DS

Net Weight: 9.5 kg (21 lb)

Net Contents: 2.01 L (68 us fl oz) Liquid Additive Component A

6.87 L (232 us fl oz) Liquid Bladder Component B

One carton treats 400 units\* of seed (20,000 lbs) in 1 x 400 unit increments.  
\*Based on 140,000 seeds per unit, 2,800 seeds per pound.



September 24, 2024

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## Directions for Use

### Directions for Use for Continuous Application

- Start preparation of the Optimize® FXC DS only when you are ready to apply to seed.
- To ensure an even suspension shake the Liquid Bladder (Component B) well. Settling of bacteria during storage is normal.
- Add LCO Liquid Additive (Component A) 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 inoculant slurry tank.
- Alternatively mix the bladder contents and liquid additive together in a dedicated inoculant slurry tank.
- Only prepare enough material that you can treat in a standard work day.
- Apply to the seed as soon as possible.
- Calibrate the system to ensure that 44.4 ml (1.5 us fl oz) of Optimize® FXC DS flows out of the nozzle in the time that 45.4 kg (100 lb) of seed passes beneath it.
- For retail application only.

### Seed Treatment Recommendations

We do not recommend the use of additional water, polymers, or dyes beyond what is required with the seed treatment. If Optimize® FXC DS is applied to bare seed without other seed treatment products, non-chlorinated water may need to be added to Optimize® FXC DS, and the slurry applied at 88.8 ml (3.0 us fl oz) /cwt. No additional carrier is needed if applied with approved seed treatment products.

### Applicators and Other Handlers

The active ingredients in Optimize® FXC DS are *Bradyrhizobium japonicum* viable cells and lipo-chitoooligosaccharides. Ensure adequate ventilation, and avoid breathing mist, vapors or spray. Where exposure through inhalation may occur, use respiratory protective equipment. This product contains microorganisms that may have the potential to provoke sensitizing reactions. Avoid skin contact and wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. If on skin: wash with plenty of water and soap. If skin irritation or rash occurs get medical advice/attention. All mixers, loaders, applicators, and other handlers must wear chemical-resistant gloves, long sleeve shirt, long pants, and shoes plus socks when handling product or treated seed to prevent skin contact. Contaminated work clothing must not be allowed out of the workplace. Remove and wash contaminated clothing with detergent and hot water before reuse. Keep and wash PPE separately from other laundry. Use safety goggles where splashing is possible. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

### Storage and Disposal

Optimize® FXC DS requires specific storage conditions to ensure product performance:

- Store in original container away from feed and food.
- Store product and treated seed under cool conditions, away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use before expiration date.
- Keep out of reach of children.

Unused Optimize® FXC DS and unplanted seed to which Optimize® FXC DS has been applied should be disposed of in accordance with applicable Federal, state/provincial, and local requirements.

Do not contaminate drains, sewers, and waterways when disposing of equipment rinse water.

## Limited Warranty

The seller warrants that this product contains a minimum number of *Bradyrhizobium japonicum* viable cells and minimum concentration of lipo-chitoooligosaccharide as specified on this label. The Seller makes no other warranty expressed or implied as to product viability or performance since product storage, use and growing conditions are beyond the Seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition. If this product does not perform as warranted above, and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of the Seller.

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