

Optimize® XC Inoculant

Up to 2X the rate of early nodulation for soybeans, with an extra-concentrated formulation

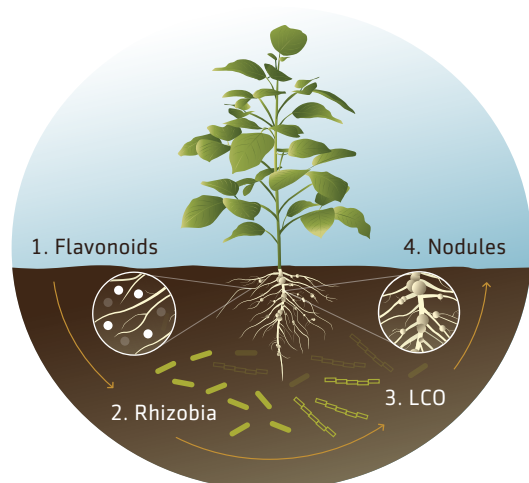
Optimize® XC Inoculant is a retailer-applied dual-action technology that combines *Bradyrhizobium japonicum* with exclusive LCO (lipo-chitooligosaccharides) technology. In 2016, a growth chamber study showed that combining LCO with rhizobia increases the rate of early soybean nodulation, resulting in 2X as many nodules compared to rhizobia alone. Plus, the LCO in Optimize XC Inoculant enhances mycorrhizal colonization, which increases functional root volume and helps the plant uptake more water and nutrients through the root.

BENEFITS OF USING OPTIMIZE XC INOCULANT

- Combines *Bradyrhizobium japonicum* and LCO, which can double the rate of early nodulation
- Enhances mycorrhizal colonization, which increases functional root volume and helps the plant uptake more water and nutrients through the roots
- Increases nitrogen fixation through nodule formation
- Enhances nutrient availability which supports root and shoot growth
- Broad seed treatment compatibility* with 120 days on-seed life with most seed treatments
- The industry's lowest application rate for soybeans — leaving more space on your seed for additional treatments (0.75 fl oz per unit of seed with minimum of 1.5 fl oz total volume with water when applied alone)
- A convenient, easy-to-handle package

HOW THE TECHNOLOGY WORKS

1. Needing nitrogen, the plant releases flavonoids to signal rhizobia.
2. Sensing the flavonoids, the rhizobia signal LCO back to the plant.
3. The plant can respond to the LCO, allowing the rhizobia to infect its roots.
4. This symbiotic relationship creates nodules, which can help fix atmospheric nitrogen.





PRODUCT DETAILS

Packaging may vary.

Optimize[®] XC Inoculant

Active Ingredients	Packaging	Application Rate	Case Treats
10 billion (1 x 10 ¹⁰) viable cfu/g <i>Bradyrhizobium japonicum</i> 1 x 10 ⁻⁷ % lipo-chitooligosaccharides	400 units 5 x 2 x 40 unit	1.5 fl oz/100 lbs of seed (44.4 ml/45.4 kg)	400 units or 56,000,000 seeds

Always read and follow label directions

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Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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