Novozymes Optimize® FXC

– liquid inoculant for soybeans

Product features

***Bradyrhizobia* and LCO-promoter technology enhance nodulation and improve mycorrhizal association for healthier soy plants**
Optimize® FXC is a *Bradyrhizobia* combined with LCO promoter technology. It enhances nodulation processes and improves mycorrhizal associations. The result is increased biological nitrogen fixation, accessibility to soil nutrients and water absorption for your crops. The result is improved yield expectation. It's a low-volume seed treatment that's highly compatible with on-seed chemistries.

Our LCO-promoter technology just got better: fortified LCO lets the *Bradyrhizobia* get to work faster on helping your crop. By adding fortified LCO, we give you a headstart on nodulation and formation of key mycorrhizal associations that improve your soybean health. The results are even better yields. Not only that, our new synthetic LCO lasts even longer.

Features & benefits

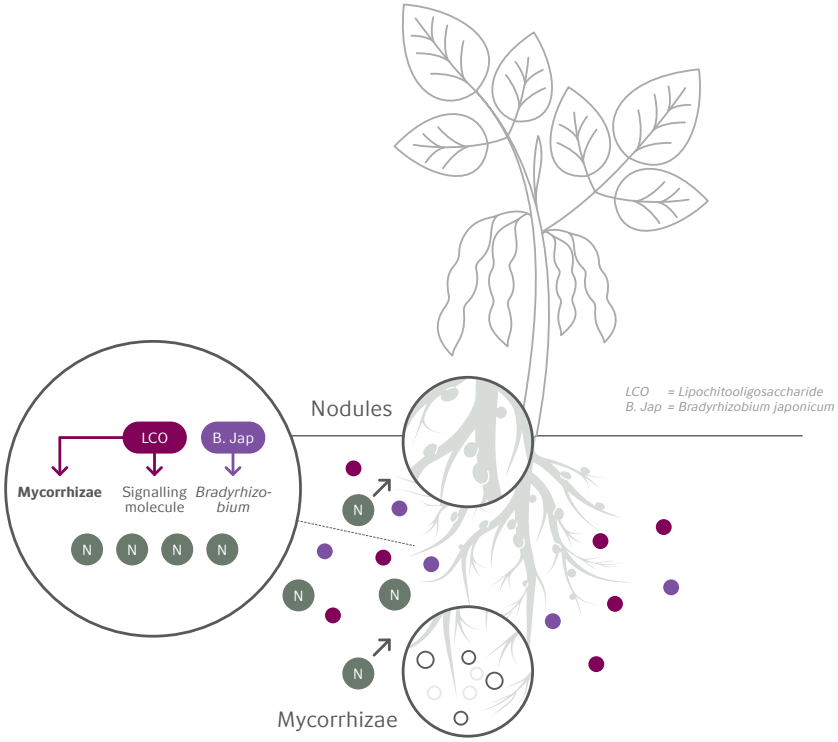
Benefits of Optimize® FXC

- Enhances nitrogen fixation potential
- Improves yield potential
- Increases root growth and shoot development
- Supports early vigor
- Improves stress tolerance
- Increases mycorrhizal associations

How Optimize® FXC technology works

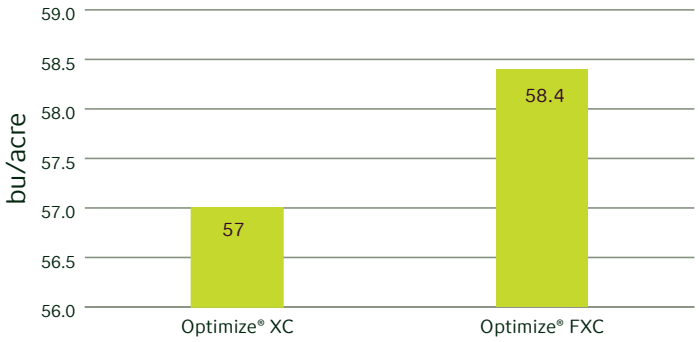
LCO-promoter technology signals to plants that nitrogen-fixing rhizobia are present.

1. Fortified LCO allows the *Bradyrhizobia* to start colonizing roots sooner. It does this by providing plants with LCO on seed during treatment. This enhances the natural signaling process plants initiate when they are treated with rhizobia alone.
2. The plant can respond to the LCO, allowing the *Bradyrhizobia* to colonize its roots.
3. This symbiotic relationship creates nodules, which can help fix atmospheric nitrogen.



Product performance

Optimize® FXC increases yield by 1.4 bushels per acre compared to Optimize® XC with a win rate increase of 50 to 70%. These results are taken from 23 Novozymes internal field trials conducted in 2020 in the United States.



Active ingredients	Application rate	Time on seed	Packaging
1 x 10^{10} viable cfu/g *Bradyrhizobium japonicum* 1 x 10^{-7}% lipo-chitooligosaccharides	1.5 oz/100 lb seed (44.4 ml/45.4 kg)	120 days	232 fl oz bladder + 68 fl oz liquid additive To treat 400 units 23.2 fl oz bladder + 6.8 fl oz liquid additive To treat 40 units

To learn more visit us at novozymes.com/bioag or call your local retailer.

About Novozymes
Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives. As the world's largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow.

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