

# Optimize<sup>®</sup> LV

Soybean

**STRONGER. BETTER. FASTER.**

Optimize<sup>®</sup> LV is a retailer-applied dual-action inoculant that delivers the benefits of a specially selected *Bradyrhizobium japonicum* inoculant along with LCO (lipochitooligosaccharide) technology – helping to improve your crop’s potential by enhancing nutrient availability.

With Optimize LV, the plant does not need to wait for the LCO signal as it is delivered on the seed, potentially reducing the time required for this process to occur naturally and therefore, accelerating nodulation and nitrogen fixation to the young crop.

Optimize LV is a concentrated formulation soybean inoculant, with a new lower application rate of 98 ml/100 kg (1.5 fl oz/100 lb).

## How it Works

**Dual-action inoculant to enhance nutrient availability and development of nitrogen-fixing nodules.**

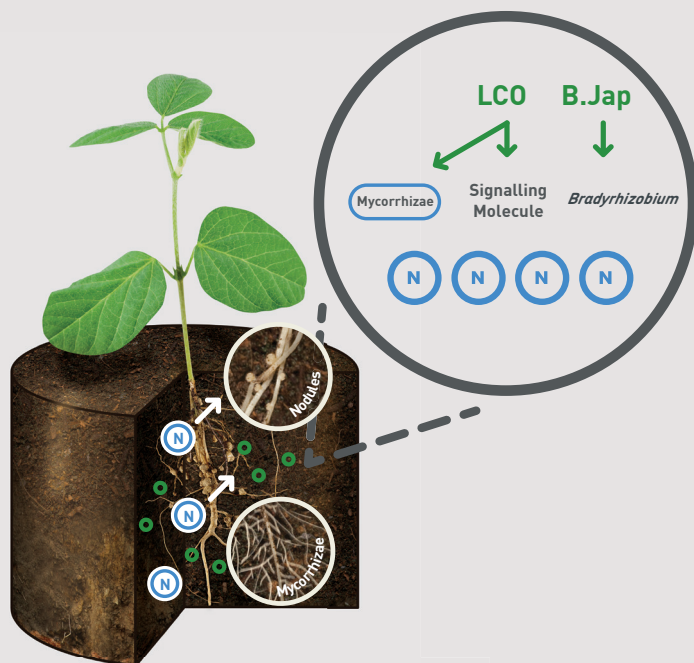
- 1 Needing nitrogen, the plant releases flavonoids to signal rhizobia.
- 2 Sensing the flavonoids, the rhizobia signal LCO back to the plant.
- 3 The plant can respond to the LCO, allowing the rhizobia to infect its roots.
- 4 This symbiotic relationship creates nodules, which can help fix atmospheric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

**LCO = Lipochitooligosaccharide**

- Stress Mitigation
- Enhances Nodulation
- Increases Association with Mycorrhizae

**B.Jap = *Bradyrhizobium japonicum***

- Fixes Nitrogen



**NexusBioAg**

# Benefits of Optimize<sup>®</sup> LV



Broad seed treatment compatibility with 220-day on seed stability with additional extender\* for key seed treatments, otherwise 120-day on seed stability



Greater opportunity for the development of nitrogen-fixing nodules with LCO



Enhanced nutrient capability, which supports root and shoot growth



Low application rate means more space on seed for other additives

## What is LCO Technology

LCO is a molecule involved in the rhizobia legume nodulation process. When the LCO molecule is present at the time of planting, it allows for the nodulation process to begin, independent of variety, soil and environmental conditions.

The benefit of earlier nodulation initiation is earlier nitrogen availability to the plant, which supports plant growth such as root and shoot development. The result of this early-season activity is better plant performance.

LCO is an important component in nodulation as a key driver in the communication between plants and rhizobia.

## Optimize LV Application

Optimize LV is applied to soybean seed by retailers. Please contact your seed retailer to order.

Optimize LV for soybean is available in a liquid formulation, in two sizes to treat either 80 or 400 units per box.

*Please read the label before application for complete use instructions.*

## Optimize LV Liquid Application

Package size and contents	Amount of seed treated/individual case	
2 x 0.686 L Optimize LV liquid, plus 2 x 0.2 L Liquid Additive	80 units	4,000 lb
6.9 L Optimize LV liquid, plus 2 L Liquid Additive	400 units	20,000 lb

If you would like more information or have questions, contact your local NexusBioAg Representative or visit [nexusbioag.com](http://nexusbioag.com)

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\*Additional extender purchased separately. For compatibility information, visit [nexusbioag.com](http://nexusbioag.com).

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