

# Optimize<sup>®</sup> LV

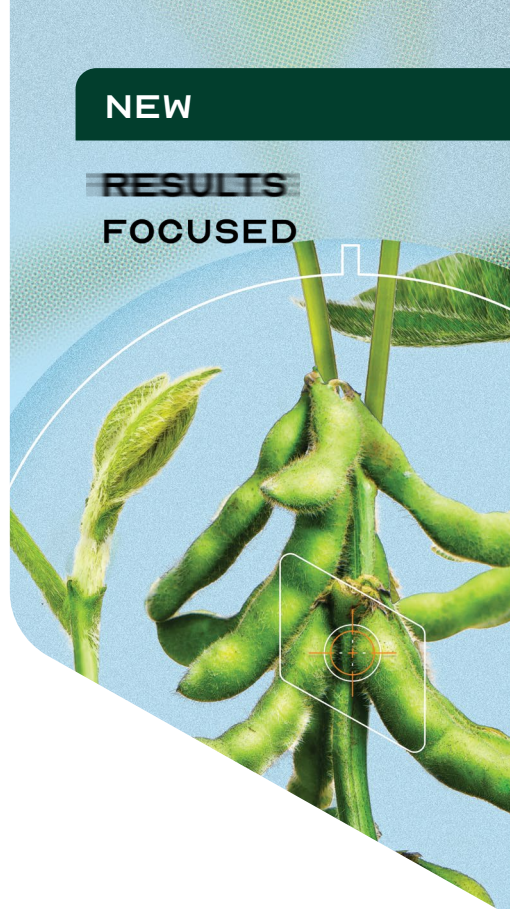
Soybean

## New Concentrated Formulation

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 has the same biological actives, performance and benefits as Optimize ST, with a new lower application rate of 98 ml/100 kg (1.5 fl oz/100 lb) of seed.



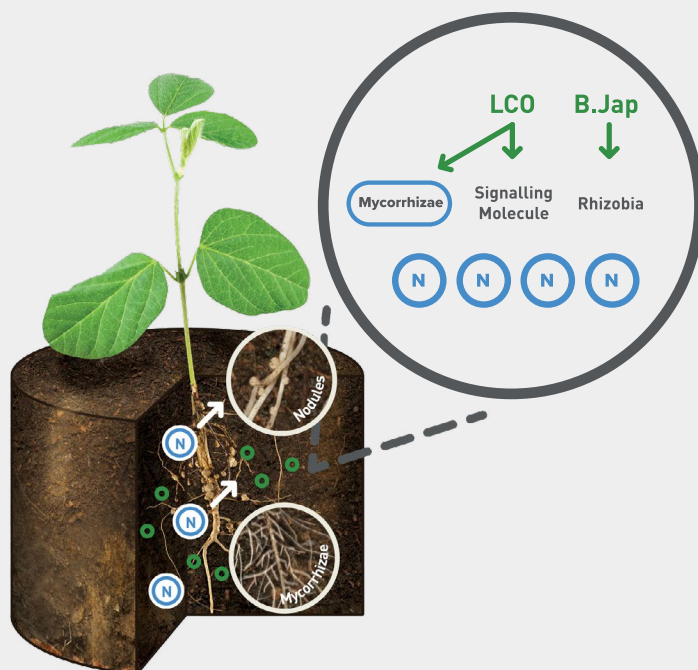
## How it Works

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

**LCO = Lipochitooligosaccharide**

- Stress Mitigation
- Enhances Nodulation
- Increases Association with Mycorrhizae

**B.Jap = Bradyjaponicum**



# Benefits of Optimize® LV



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



Enhanced nutrient capability, which supports root and shoot growth



46% lower application rate than Optimize ST means even more space on seed for other additives



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

## 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.

For complete application instructions, please refer to the Optimize LV label.

### Optimize LV liquid application

Package size and contents	Amount of seed treated/individual case	
2 x 0.686 L Optimize LV liquid, plus 0.4 L Liquid Additive	80 units	4,000 lb
6.9 L Optimize LV liquid, plus 2 L Liquid Additive	400 units	20,000 lb

### Comparing Optimize LV and Optimize ST

	NEW Optimize LV	Optimize ST
<b>Actives</b>	<i>Bradyrhizobium japonicum</i> LCO (lipochitooligosaccharide) technology	
<b>Planting Window</b>	220-day on seed stability with additional extender* for key seed treatments, otherwise 120-day on seed stability	
<b>Application Rate</b>	98 ml/100 kg (1.5 fl oz/100 lb)	182 ml/100 kg (2.8 fl oz/100 lb)
<b>Package Size</b>	6.9 L Optimize LV liquid, plus 2 L Liquid Additive	12.8 L optimize ST liquid, plus 3.8 L Liquid Additive
<b>Seeds Treated</b>	400 units (20,000 lb)	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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