

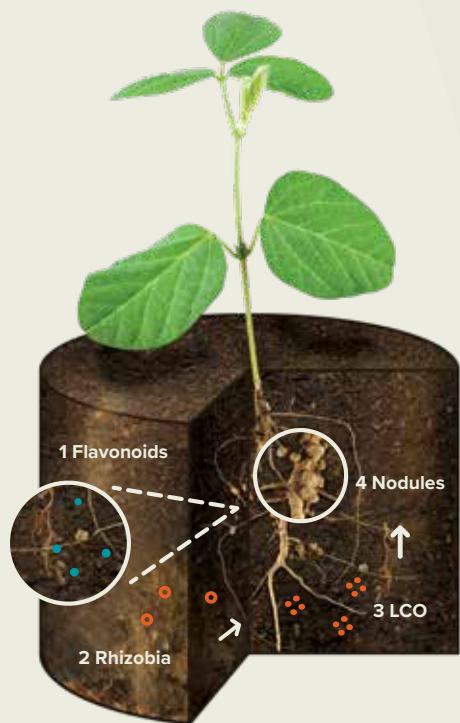
# Optimize<sup>®</sup> ST

SOYBEAN

## BREAKTHROUGH PERFORMANCE FOR SOYBEANS

Optimize<sup>®</sup> ST inoculant is a retailer-applied dual-action product 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 ST, 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.



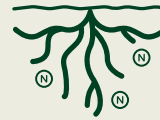
## HOW IT WORKS

- 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.

## BENEFITS OF USING OPTIMIZE® ST INOCULANT



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



Lower application rate means more space on seed for other seed treatments

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

### 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® ST APPLICATION

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

Optimize ST for soybean is available in a liquid formulation, in two sizes to treat either 100 or 400 units per box.

For complete application instructions, please refer to the Optimize ST Retail Application Guide available at [useOptimizeST.ca](http://useOptimizeST.ca).

#### Optimize ST liquid application

Package size and contents	Amount of seed treated/ individual case	
	100 units	5,000 lb
2 x 1.6 L Optimize ST liquid, plus 2 x 475 ml Liquid Additive	100 units	5,000 lb
12.8 L Optimize ST liquid, plus 3.8 L Liquid Additive	400 units	20,000 lb

If you need more information or have questions about Optimize® ST, contact Acceleron BioAg™ toll-free at **1-800-667-4944** or visit [useOptimizeST.ca](http://useOptimizeST.ca).

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