

Optimize[®] ST

SOYBEAN

BREAKTHROUGH PERFORMANCE FOR SOYBEANS

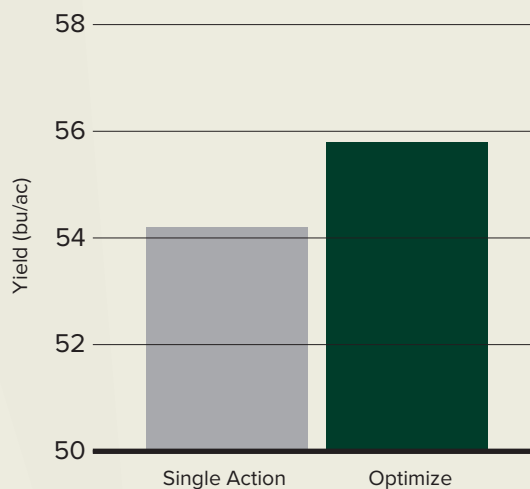
Optimize ST technology is a retailer-applied dual-action inoculant that delivers the benefits of a specially selected *Bradyrhizobium japonicum* inoculant along with LCO (lipochitooligosaccharides) technology – helping to improve your crop's potential by enhancing nutrient availability.

BENEFITS OF USING OPTIMIZE ST

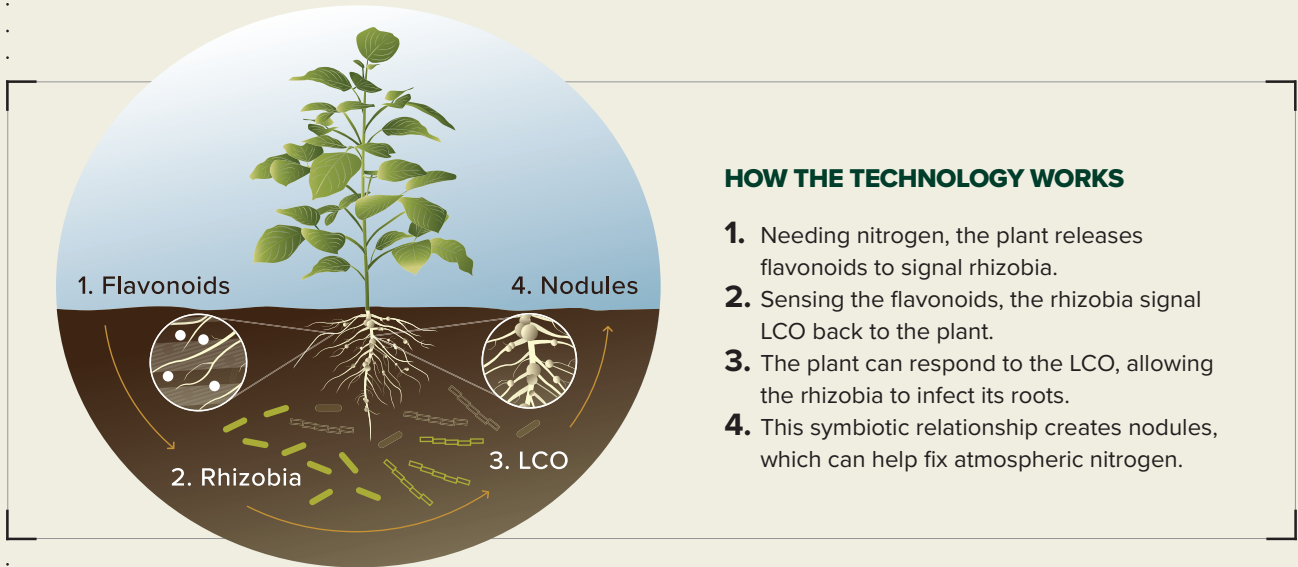
- Includes an elite strain of *Bradyrhizobium japonicum* and LCO to help with effective nodulation.
- Increased nitrogen fixation through nodule formation.
- Enhanced nutrient capability, which supports root and shoot growth.
- Broad seed treatment compatibility with up to 220 days on-seed stability depending on the seed treatment used.*

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.

Optimize ST can help to increase yield potential compared to single-action competitors.



Source: Summary of 29 large-plot independent research trials in Eastern Canada from 2010–2011. Individual results may vary.



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.

For complete application instructions, please refer to the Optimize ST Retail Application Guide available at useOptimizeST.ca.

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

Optimize ST liquid application

Package size and contents	Amount of seed treated/box	
	2 x 1.6 L Optimize ST liquid, plus 2 x 475 ml Liquid Additive	100 units
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 Monsanto BioAg toll-free at **1-800-667-4944** or visit Monsantobioag.ca.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Monsanto BioAg and Design® and Optimize® are registered trademarks of Monsanto Technology LLC. Monsanto Canada Inc, licensee. © 2017 Monsanto Canada Inc.