

# Novozymes Optimize® Inoculant for peanuts

## Product overview

### Dual-action inoculant for peanut

Optimize® Technology is an inoculant for peanuts that supports your crop's potential by enhancing nutrient availability. With Optimize® Technology, you get the benefits of a specially selected *Bradyrhizobium* sp. *Arachis* inoculant along with LCO (lipo-chitooligosaccharides) technology.

## Features & benefits

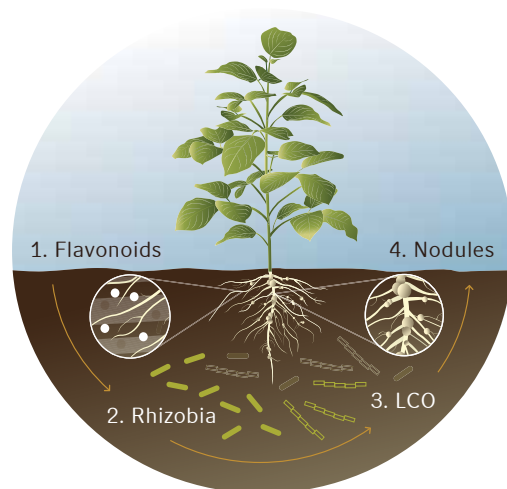
### Benefits of using Optimize® Technology:

- Includes an elite strain of *Bradyrhizobium* sp. *Arachis* and LCO to help with effective nodulation
- Increases nitrogen fixation through nodule formation
- Enhances nutrient availability which supports root and shoot growth

## How it works

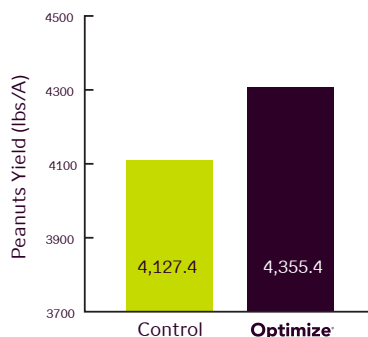
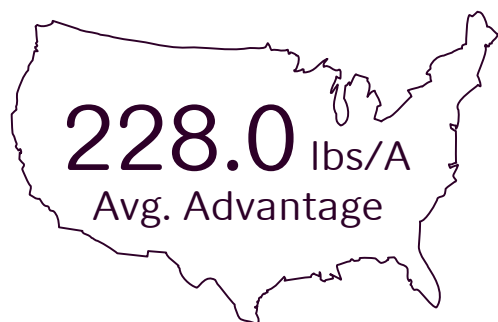
### How the technology works:

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.



## Product performance

In 153 independent, replicated small-plot trials conducted over 13 years, peanuts treated with Optimize® microbial seed inoculant out-yielded peanuts not treated with Optimize® by an average of 228.0 pounds per acre. Data as of January 19, 2018. Individual results may vary.



69.3%  
Win Rate Avg.

## Product performance

### Optimize® Peanut Inoculant

Active ingredients	Packaging	Application rate	Case treats
2 billion ( $2 \times 10^9$ ) viable cfu/ml <i>Bradyrhizobium</i> sp. <i>Arachis</i> $1 \times 10^{-7}$ % lipo-chitooligosaccharides	4 x 1.1 gal	1.0 oz/1,000 ft of row	Case treats 40 acres. Package treats 10 acres using a 36 inch row spacing.

Always read and follow label directions

To learn more visit us at [novozymes.com/bioag](https://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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