

LALFIX PROYIELD

LIQUID SOYBEAN



SOYBEAN



LIQUID



INOCULANT



MULTI-ACTION LIQUID INOCULANT FOR SOYBEANS

LALFIX® PROYIELD Liquid Soybean is a leading liquid inoculant containing *Bradyrhizobium elkanii* and *Delftia acidovorans*. Lallemand Plant Care utilizes two unique strains of *Bradyrhizobium elkanii* to bring soybean growers an innovative inoculant with higher rhizobia survival and competitiveness. In addition, *Delftia acidovorans* increases root growth, nutrient and water uptake – ultimately leading to enhanced nodulation and nitrogen fixation, early vigor and higher soybean yields. In partnerships with university research extensions, *Delftia acidovorans* is known to produce a significant amount of chaperone molecules that help solubilize iron for soybean availability.

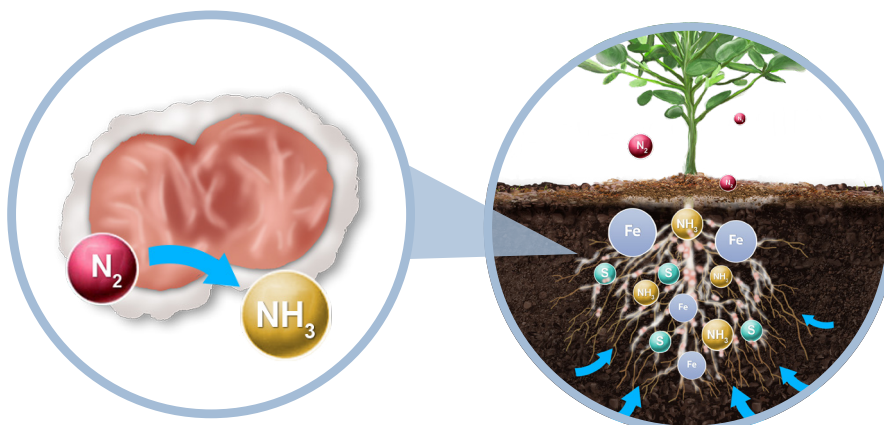
ADVANTAGES

Bradyrhizobium elkanii

- More N fixation through utilization of nitrogenase enzyme compared to competitor rhizobia.
- Robust, early nodulation dispersed over the crown and lateral roots compared to competitive inoculants.

Delftia acidovorans

- Stimulates intricacy of root system allowing for increased nodule formation.
- Aggressively colonizes roots and outcompetes other soil bacteria and fungi.
- Solubilizes iron through siderophore production.
- Makes more sulfur available to the plant.



CHARACTERISTICS

Active Ingredient:

- 1×10^{10} *Bradyrhizobium elkanii* per ml
- 2×10^7 *Delftia acidovorans* per ml

Package Size:

- 1 x 400 unit case (45 cases per pallet)
- 4 x 100 unit case (45 cases per pallet)

Easy to Use Formulation:

- One package (no mixing required)
- On-seed life of 240 days
- Limited tackiness/bridging

Always read and follow label instructions.

ON-SEED APPLICATION RATE

22.2 ml (0.75 fl oz) per 140,000 seeds OR
44.4 ml per 45.4 kg (1.5 fl oz per 100 lbs) of seed

Microbial by nature

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PLANT BIOMASS RESULTS

Significant Plant Response to *Delftia acidovorans*

15x replicated trial - 60 days after sowing



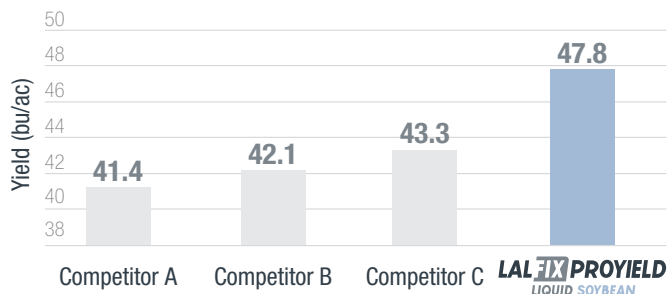
Bradyrhizobium alone

LAL PROYIELD
Bradyrhizobium +
Delftia acidovorans

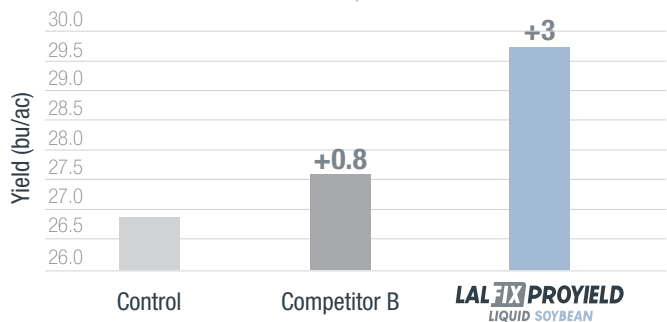
TRIAL RESULTS

- 4x Replications
- Bushel advantage over untreated control listed above bars

2020 UNIVERSITY REPLICATED PLOT TRIALS FARGO, ND



2021 UNIVERSITY REPLICATED PLOT TRIALS FARGO, ND



MODES OF ACTION

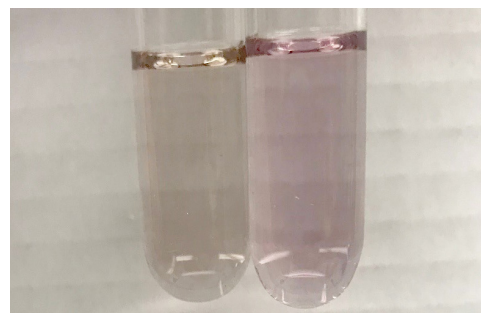
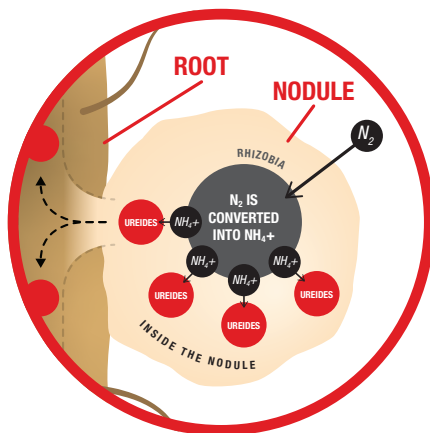
Bradyrhizobium elkanii

INCREASED NITROGEN PRODUCTION

Bradyrhizobium elkanii vs
Bradyrhizobium japonicum

THE UREIDE TEST

Nitrogen Fixation Demonstration
Developed by Dr. Jay Goos at NDSU



Bradyrhizobium
japonicum

LAL PROYIELD
Bradyrhizobium elkanii

*Red color intensity correlates to Ureide concentration.

About Lallemand Plant Care

For over 100 years, Lallemand has been an expert in yeast and bacteria manufacturing. It is now a global leader in the development, production, and marketing of microorganisms for various industries. Using sound science and know-how, Lallemand Plant Care provides effective microbial-based solutions that deliver agronomic, economic, and sustainable value to growers.

Microbial by nature

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