



SOYBEAN



LIQUID



INOCULANT



MULTI – ACTION LIQUID INOCULANT FOR SOYBEANS

LALFIX® PROYIELD Liquid Soybean is a new leading formulation 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 out-competes 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

Application Rate

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

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

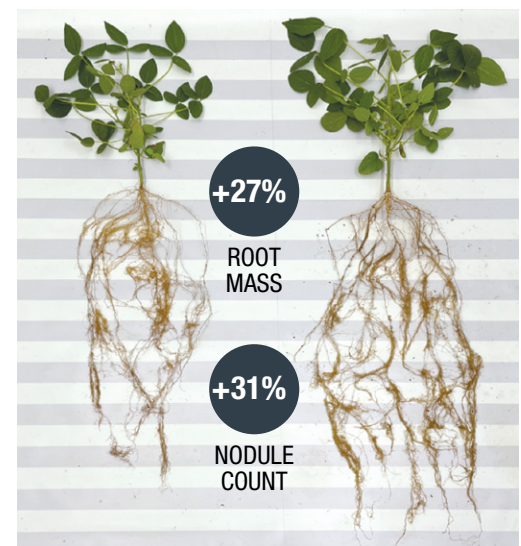
Always read and follow label instructions



PLANT BIOMASS RESULTS

Significant Plant Response to *Delftia acidovorans*

15x replicated trial - 60 days after sowing



Bradyrhizobium alone

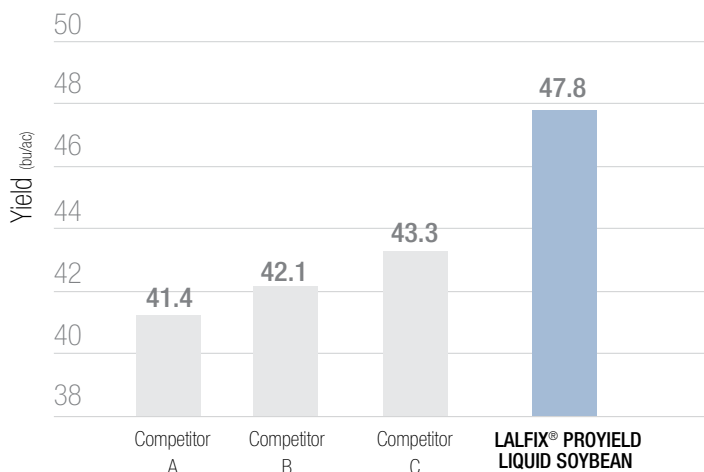
Bradyrhizobium + *Delftia acidovorans*
LALFIX® PROYIELD LIQUID SOYBEAN



TRIAL RESULTS

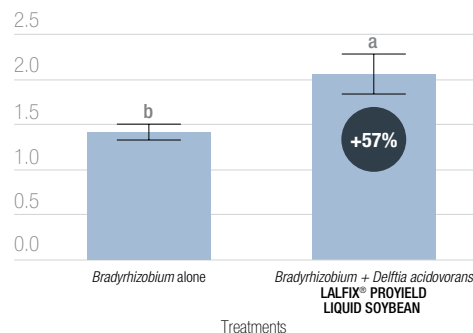
University Replicated Plot Trials

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



Plant Biomass - Under Drought Stress

ROOT DRY WEIGHT/PLANT IN DROUGHT STRESS - 60 DAYS AFTER SOWING



PRODUCT RESULTS



Visual representation of iron chelation by *Delftia acidovorans* following CAS agar method.

COMPETITOR | LALFIX PROYIELD LIQUID SOYBEAN | COMPETITOR

PRODUCT RESULTS

30% average improvement in plant color!



COMPETITOR

LALFIX PROYIELD LIQUID SOYBEAN

	Greenness Index	Nitrogen Reflectance Index	Green Leaf Index	Triangular Greenness Index
Competitor	1.472	0.191	0.221	3157
LALFIX PROYIELD LIQUID SOYBEAN	1.612	0.234	0.209	6011
% Increase to LALFIX PROYIELD LIQUID SOYBEAN	9.5	22.6	-5.7	90.4

MORE IRON & NITROGEN UPTAKE = GREENER PLANTS

About Lallemand Plant Care

Since the beginning of the 20th Century, LALLEMAND has been an expert in yeast and bacteria manufacturing. The family-owned company is now a global leader in the development, production, and marketing of microorganisms for various agri-food industries. Using sound science and know-how, LALLEMAND PLANT CARE (LPC) works closely with clients to deliver the right technology, in the right formulation, for the right application. LPC is committed to solving grower challenges, significantly improving yield and crop vitality.



Microbial By Nature

www.lallemandplantcare.com

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LALLEMAND PLANT CARE