

# 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.

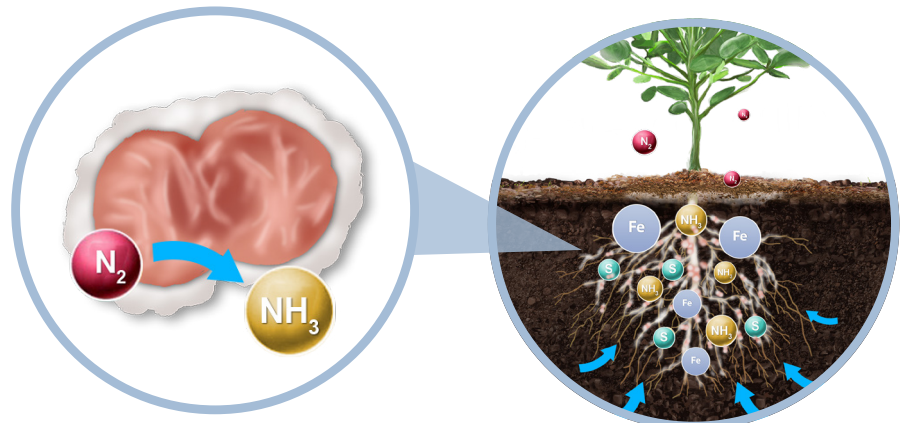
### ADVANTAGES

#### *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:

- $1 \times 10^{10}$  *Bradyrhizobium elkanii* per ml
- $2 \times 10^7$  *Delftia acidovorans* per ml

#### Package Size:

- 1 x 400 unit case
- 4 x 100 unit case

#### Easy to Use Formulation:

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

**Always read and follow label instructions.**

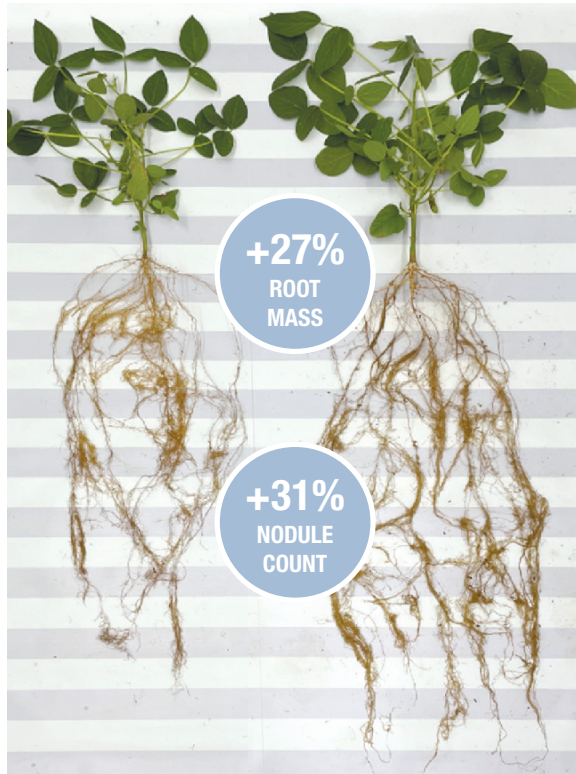
### ON-SEED APPLICATION RATE

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

## PLANT BIOMASS RESULTS

### Significant Plant Response to *Delftia acidovorans*

15x replicated trial - 60 days after sowing



**+27%**  
ROOT  
MASS

**+31%**  
NODULE  
COUNT

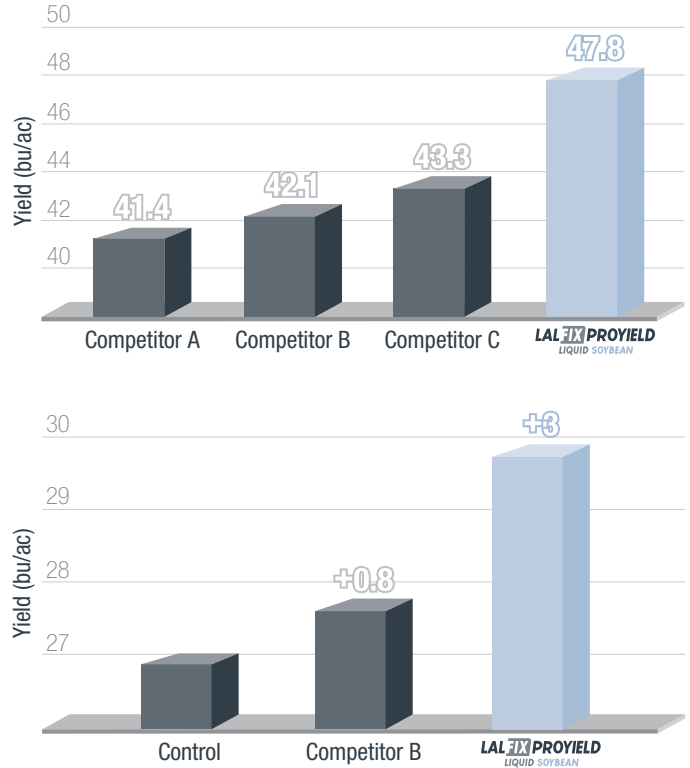
*Bradyrhizobium* alone

**LALFIX PROYIELD**  
*Bradyrhizobium* +  
*Delftia acidovorans*

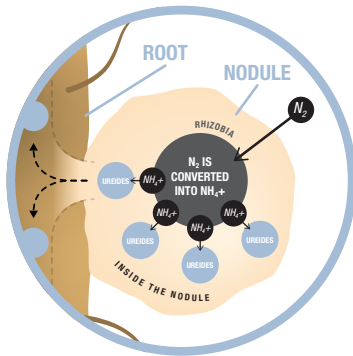
## TRIAL RESULTS

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

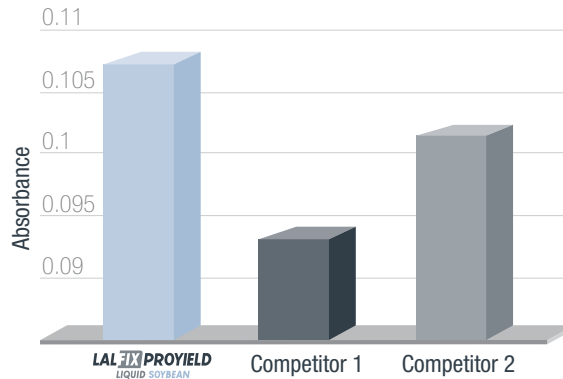
### UNIVERSITY REPLICATED PLOT TRIALS FARGO, ND



## MODES OF ACTION: *Bradyrhizobium elkanii*



## UREIDE RESULTS



Ureide is an indicator of nitrogen productivity.

LALFIX PROYIELD bacteria captures more nitrogen.

### 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.