



CORN



PGPM



SEED FINISHER



IMPROVES SEEDLING VIGOR & PLANT GROWTH

LALRISE[®] SHINE DS is a dry seed treatment. It combines the performance of a patented seed finisher along with Lallemand's proprietary technology. This plant growth-promoting microbe (PGPM) increases crop establishment through improved root vigor and nutrient availability. Ultimately, **LALRISE SHINE DS** solubilizes phosphorus from organic and inorganic reservoirs, which promotes growth in young plants and increases root mass, crop homogeneity, and yields.

ADVANTAGES

The *Bacillus velezensis* bacteria contained in **LALRISE SHINE DS** multiply and quickly colonize the rhizosphere by feeding on root exudates. In return, this bacteria population brings several benefits to the plants:

- **Stimulating the start-up** of young plants
- **Improving soil exploration** by roots, allowing better nutrient and water uptake
- **Enhancing the productivity** of plants, allowing better growth, yield, and quality

CHARACTERISTICS

Active Ingredient

5 x 10⁹ *Bacillus velezensis* CFU/g

Package Size

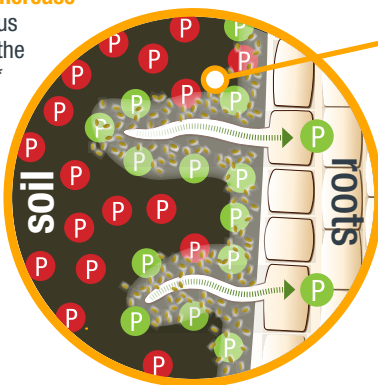
- 5 x 20 oz case
- Total Case Weight - 6.25 lb or 100 oz

Always read and follow label instructions.

ON-SEED APPLICATION RATE

CROP	OUNCES PER 100 LBS OF SEED
Corn	1.0

✓ **SOLUBILIZES PHOSPHORUS:**
Up to 28% increase of Phosphorus available in the rhizosphere*



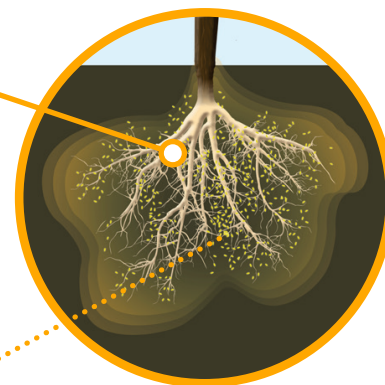
P Phosphorus available **P** Phosphorus unavailable



Bacillus velezensis

Increase in root surface area for improved nutrient access

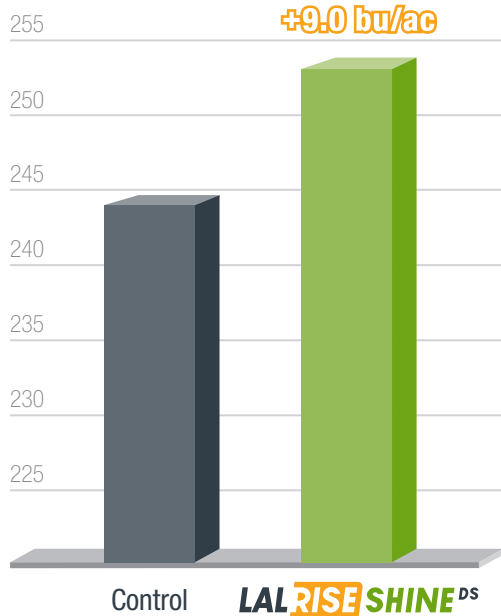
✓ **NUTRIENT AVAILABILITY IMPROVES ROOT MASS GROWTH:**
Up to +20% of root biomass*



*Results obtained from various trials carried out over 10 years.

TRIAL RESULTS

2023 CORN TRIALS - EDGAR, MT



LALRISE SHINE^{DS}

Control

LALRISE SHINE DS + A PATENTED SEED FINISHER

POSITIONING FOR PERFORMANCE:

- Use **LALRISE SHINE DS** to help manage crop input investments when carefully striving to optimize return with agronomic choices.
- Use **LALRISE SHINE DS** to enhance phosphorus fertility performance when crop fertilizer inputs are limited.
- Use **LALRISE SHINE DS** to better access phosphorus reserves tied up in soils as a result of high or low soil pH levels.

PHYSICAL ATTRIBUTES:

- Evenly coats seed with the microorganism
- Enhances cosmetic appearance
- Significantly reduces dust-off
- Optimizes seed flow. Plants more accurately

LALRISE SHINE DS APPLICATION DIRECTIONS

COMMERCIAL SEED TREATERS

Use a dry powder mill to coat treated seed as a dry seed finisher.

PLANTER BOX:

On-farm application

Top dress **LALRISE SHINE DS** into center fill or hopper box.

OR

Apply on seed prior to transferring seed into planter.

LALRISE SHINE DS is compatible with all seed treatments including fungicides, insecticides, and rhizobium inoculants.

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.