



MULTI-CROP



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

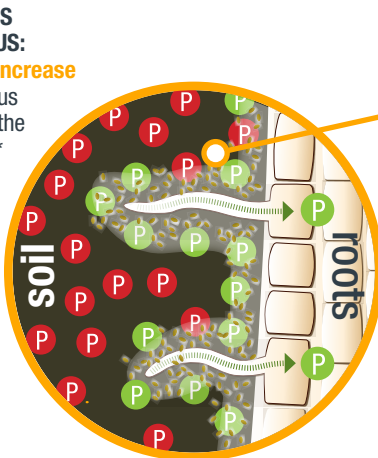
5 x 10⁹ *Bacillus velezensis* CFU/g

Package Size

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

Always read and follow label instructions.

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



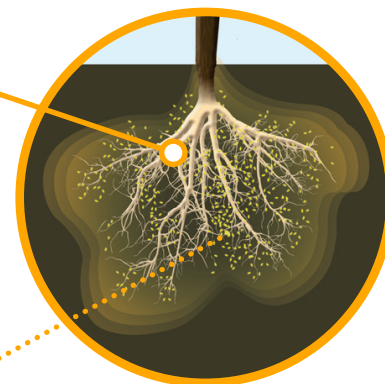
P Phosphorus available **P** Phosphorus unavailable

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



Bacillus velezensis

Increase in root surface area for improved nutrient access



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

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.

LALRISE SHINE DS ON-SEED USE RATES

CROP	ON SEED RATES		ESTIMATED SEEDING RATE (lbs/ac)	ACRES PER POUCH (ESTIMATED)
	oz/100 lbs	oz/lb		
Canola	5	0.05	4	100
Corn	1	0.01	20	100
Dry Beans	0.4	0.004	80	62.6
Soybeans	0.4	0.004	50	100
Cereals	0.25	0.0025	100	80
Sorghum	1	0.01	20	100
Sugarbeet	5	0.05	2.7	148.2
Sunflower	1	0.01	5	400

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.