

LALRISE[®] PRIME

LALRISE[®] PRIME is a one-step system that provides a convenient and robust inoculant containing bio-encapsulated spores of a carefully selected and versatile endomycorrhiza strain, to optimize on-seed survival. It was specially formulated and developed for bulk treatment by seed processors or on-farm applications. The micron-sized powder formulation allows for uniform and optimized adhesion to the seeds and reduced dust-off of the product in your daily operations. LALRISE[®] PRIME active ingredient connects to the root system and form an extensive underground network of hyphal filaments, which act as extensions to reach beyond the rhizosphere area. It increases plant absorption capacity (water, macro- and micro-nutrients), drought tolerance, overall crop quality and yield potential in crop rotations.



The **MYCONNECT[®] TECHNOLOGY** seal ensures compliance with quality standards from the LALLEMAND PLANT CARE mycorrhizae production system. MYCONNECT[®] TECHNOLOGY optimizes active spores concentration per plant, offers superior quality and efficiency and provides a better rate of root colonization and product shelf-life. This technology uses a proprietary yeast fraction, acting to enhance the efficacy of the mycorrhiza active ingredient.

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

CONTAINS NON-PLANT FOOD INGREDIENT

Soil-Amending Guaranteed Analysis

ACTIVE INGREDIENT:

Total Microbe

Rhizophagus irregularis..... 2,000 spores/g

INERT INGREDIENTS:

Includes Kaolin Clay and Inactive Yeast

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

The active ingredient in LALRISE[®] PRIME is naturally occurring arbuscular mycorrhiza fungal spores. Persons allergic to bacteria and/or fungi and immune-deficient individuals should avoid using this product. Avoid exposure through inhalation, or to open wounds and eyes. Standard protective clothing and equipment including gloves, safety goggles and a NIOSH (The National Institute for Occupational Safety and Health) or MSHA (the Mine Safety and Health Administration) approved respirator are recommended during handling and storage. Use this product in well-ventilated areas.

In case of contact with skin or eyes, immediately flush exposed areas with a continuous gentle stream of clean water. In case of inhalation, remove person to fresh air. In case ingestion, do not induce vomiting but rinse mouth with water. Seek medical attention if discomfort or irritation develops. Medical treatment should be based on the judgement of the physician in response to reaction of the patient.

Guaranteed by:

Danstar Ferment AG /
LALLEMAND PLANT CARE
Poststrasse 30
CH-6300 Zug, Switzerland

Marketed and distributed by:

Lallemand Specialties Inc. /
LALLEMAND PLANT CARE
6120 West Douglas Avenue
Milwaukee, WI 53218 USA
1-844-590-7781

STORAGE AND HANDLING RECOMMENDATIONS

This product expires 24 months after the production date printed on the bag if stored in a cool, dry location in the original, unopened packaging. Open packages must be resealed and kept under the same conditions for no more than six months.

Do not expose to freezing or temperatures > 95 °F (> 35 °C).

Unused product should be disposed of in accordance with applicable federal, provincial or state, and municipal laws and regulatory guidelines.

Batch No.: See printing on the bag | Production date: See printing on the bag

Made in Estonia



NET WEIGHT:
2.2 lb (1 kg)



Peel back
for instructions.
PRESS TO RESEAL.

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LALRISE[®] PRIME

Improves plant nutrition, growth, drought tolerance and yield potential in crop rotations

For: Industrial seed processor and on-farm seed treatment

Open field agricultural use

Forage crops, cover crops and intercrops

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CONTAINS NON-PLANT FOOD INGREDIENT

Soil-Amending Guaranteed Analysis

ACTIVE INGREDIENT:

Total Microbe

Rhizopagus irregularis.....2,000 spores/g

INERT INGREDIENTS:

Includes Kaolin Clay and Inactive Yeast

HOW IT WORKS

LALRISE[®] PRIME is a one-step system that provides a convenient and robust inoculant containing bio-encapsulated spores of a carefully selected and versatile endomycorrhiza strain, to optimize on-seed survival. It was specially formulated and developed for bulk treatment by seed processors or on-farm applications. The micron-sized powder formulation allows for uniform and optimized adhesion to the seeds and reduced dust-off of the product in your daily operations. LALRISE[®] PRIME active ingredient connects to the root system and form an extensive underground network of hyphal filaments, which act as extensions to reach beyond the rhizosphere area. It increases plant absorption capacity (water, macro- and micro-nutrients), drought tolerance, overall crop quality and yield potential in crop rotations.

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APPLICATION DIRECTIONS

For Agricultural use:

Cereals, including but not limited to: Barley, canary seed, corn (silage and grain), durum wheat, millet, oats, rye, sorghum, spelt, triticale, rice, wheat

Legumes (fresh and dry pulses), including but not limited to: Beans, chick peas, lentils, peas, soybeans, fava beans

Herbaceous legumes, including but not limited to: Peanuts, soybean, beans, alfalfa, lucerne, hairy vetch, sweet clovers, red clovers, white clovers, ladino, alsike clovers, crimson clovers, berseem clovers

Tree legumes, including but not limited to: Mulga, silk trees, belmont sirs, lebeck, eardodtree, leadtree

Oilseeds, including but not limited to: Borage, evening primrose, flax, hemp, linseed, meadowfoam, poppy, pumpkin seed, safflower, sesame, sunflower, cotton

Grasses, including but not limited to: Ryegrass, sudan grass, sorghum-sudan hybrids, fescue, wheatgrass, benigrass, bluestem, bromegrass, bermudagrass, orchard grass, bluegrass

Cover crops, including but not limited to: Cereals, phacelia, grasses, legumes, grass-legume seed mixes

Silage, including but not limited to: Alfalfa, maize, sorghums, oats, grass-legume mixes

1. APPLICATION RECOMMENDATIONS

- For best results, apply at a temperature between 50 °F and 86 °F; 10 °C and 30 °C.
- Do not apply as foliar treatment, to dry soils, under high temperature conditions or in micro-, drip-irrigation systems. This product can cause clogging in filtration systems.
- LALRISE[®] PRIME may be applied conveniently in either a batch or continuous seed mixing system. Alternatively, it can be applied on-farm at the time of planting.

2. MIXING RECOMMENDATIONS

For optimal results, the product should be applied dry on seeds, directly from the package, and mixed until the seeds are uniformly coated. It may be necessary to calibrate the seed flow and product application rates to achieve the desired coverage.

3. COMPATIBILITY

3.1 With chemicals: LALRISE[®] PRIME can be tank-mixed with most fertilizer solutions and is compatible with most insecticides, herbicides and fungicides. Before mixing with pesticides, please inquire to your local sales representative for specific compatibility advice and recommendations.

3.2 With plant types: LALRISE[®] PRIME is compatible with most plants and crops, except members of the Brassicaceae (including but not limited to canola), Polygonaceae (including but not limited to buckwheat) and Chenopodiaceae (including but not limited to sugar beet, quinoa, mustard) families.

3.3 With other microbial-based products: LALRISE[®] PRIME is compatible with all *Rhizobia* inoculants and with other microbial technologies offered by Lallemand Plant Care. Some technologies may be able to synergize their benefits on plants; certain recommendations may apply. If using this product in combination with another microbial product, please inquire to your local sales representative for more information.

4. APPLICATION TIMING

Industrial seed processor: As a layer of the seed coating recipe.

On-Farm application: Mixed with seeds before planting.

5. APPLICATION RATES AND INSTRUCTIONS FOR USE

5.1 For industrial seed processor

(ex.: alfalfa, clovers, grasses, legumes and seed mixes)

5.1.1 Batch system: This method can provide repeated application of LALRISE[®] PRIME with a potential reduction of calibration time. In batch seed mixing systems, the seed is first loaded into the mixer. The proper amount of powder is then added to the operating mixer and blended until the seed is uniformly coated.

5.1.2 Continuous system: This method requires initial calibration of seed flow and LALRISE[®] PRIME delivery, combined with periodic verification. Standard continuous seed treating equipment can be modified to provide an adapted treating system. LALRISE[®] PRIME is metered into the auger mixing chamber to provide uniform application.

Application rate:

- **Alfalfa, sweet clovers:** 1.75 – 3.5 oz. per 50 lb of seeds; 50 – 100 g per 22.7 kg of seeds
- **White, ladino and alsike clovers:** 3.5 – 7.0 oz. per 50 lb of seeds; 100 – 200 g per 22.7 kg of seeds
- **Grasses, legumes and seed mixes:** 1.75 – 7.0 oz. per 50 lb of seeds; 50 – 200 g per 22.7 kg of seed

5.2 For On-Farm application:

5.2.1 Mixing with seeds: LALRISE® PRIME can be applied by mixing the product with seeds before or at the time of planting. The powder can be mixed directly in the planter box, the hopper, or pre-mixed in a tank prior to loading the seed in the planter.

Application rate¹: 1.5 oz. per acre; 100 g per ha of seeds

¹ In some cases, application rate may vary based on seeding rate, soil type, climate zone or combination with another microbial technology from Lallemand Plant Care. Please inquire to your local sales representative for more information about specific application rate recommendations.

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LALRISE® PRIME uses patented technology and is a registered trademark of Danstar Ferment AG / LALLEMAND PLANT CARE.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

LIMITED WARRANTY

Danstar Ferment AG / LALLEMAND PLANT CARE ("Danstar") warrants that this inoculant (the "Product"), will contain the minimum number of live cells per milliliter/gram as specified on the Product label at the time the Product is first sold by Danstar. Danstar makes no warranty as to the Product's viability or performance since the storage, use and application of the Product and growing condition are beyond the control of Danstar.

To the extent permitted by applicable law, Danstar makes no other warranties of any kind and hereby disclaims all other warranties, whether oral or written, expressed or implied, including without limitation, the implied warranties of the merchantability and fitness for a particular purpose and the warranty of non-infringement. Buyer of the Product assumes the risk to persons and real or personal property arising from the use, application or handling of the Product or seeds treated with the Product.

Buyer's exclusive remedy for any and all losses, injury or damages resulting from a breach of this Limited Warranty shall be, at the election of Danstar, either the price paid by buyer for the Product purchased directly from Danstar, or the replacement of such quantity of the Product. Danstar shall not be responsible for any liabilities, damages, expenses, costs or other losses, including without limitation, loss of profits suffered in connection with the use of the Product and in no event shall Danstar be liable for any incidental, consequential, special or punitive damages to the buyer or any third party.

Buyers of the Product are deemed to have accepted the terms of this Limited Warranty upon opening the container containing the Product, requesting the Product to be applied to the seed, or use of seed to which the Product has been applied, whichever is earlier. The terms of this Limited Warranty may not be varied by any oral or written agreement.