

LALRISE START G

Improves plant nutrient availability and growth

For ornamental and agricultural uses

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

CONTAINS NON-PLANT FOOD INGREDIENT

Soil Amending Guaranteed Analysis

ACTIVE INGREDIENT: Total Microbe

Bacillus velezensis..... 1 x 10⁸ CFU/g

How it Works

LALRISE® START G is a granule coated with a plant growth-promoting rhizobacteria (PGPR) that increases plant establishment through improved root vigor and nutrient availability. This PGPR solubilizes phosphorus from organic and inorganic sources, which promotes growth in young plants and increases plant homogeneity, tree heights, root mass growth, winter vigor, flowering and yields. The granule provides pore spaces to sustain the bacteria, compounding its nutrient-solubilizing and plant-growth benefits, while simultaneously improving soil water-holding capacity and salt solubilization.

Application Directions:

Indoor and outdoor trees, shrub seedlings, and nursery crops, including but not limited to:

Deciduous trees (maple, oak, etc.), coniferous trees (juniper, pine, spruce, etc.), forest trees, fruit trees, ornamentals, shrubs, urban trees, vine crops, and woody ornamentals.

Flowers, bedding plants, green roofs, turf, and ornamentals, including but not limited to:

Achillea, african violet, ageratum, allium, alyssum, amaryllis, anemone, anthurium, aster, azalea, begonias, calceolaria, campanula, carnation, centaurea, cerastium, chrysanthemum, cineraria, coleus, cyclamen, daffodils, dahlia, daisy, delphinium, dianthus, dieffenbachia, freesia, fuchsia, gaillardia, ganzania, geraniums, gerbera, gladiolus, gloxinia, gypsophila, hederia, hyacinth, impatiens, iris, kalanchoe, liatris, lilies, lobelia, marigolds, Matthiola, monarda, nigella, pansy, pelargonium, petunias, phlox, poinsettia, poppy, primrose, rhododendron, rose, rudbeckia, salvia, sedum, senecio, sinningia, statice, sweet pea, turf grasses, tulips, verbena, vinca, zinnia.

Application Methods:

For best results, apply product under moist conditions (after rain or irrigation) to soil or growth media, in the morning or late afternoon. Do not apply under high temperature conditions. Optimal application temperature is between 50 °F and 86 °F (10 °C and 30 °C).

Application Timing:

For trees and ornamentals: Applications should be made at time of planting in moist soils. In container trees, mix product in with soil substrate for best results. For out-planted landscape, orchard and nursery trees: apply 1/4 of the product dose rate to the bottom of the pit before trees are lowered into the planting holes. Once the root ball or bare root has been lowered into the hole, apply 1/2 of the remaining product dose rate within the back-filled soil, distributed evenly on all sides of the tree. Apply the final 1/4 dose as top-dressing into the subsurface soil and cover with planting mulch. Top-dress trees up to 3 times per year after initial application at planting. If LALRISE® START G was not applied at time of planting, the product can be applied by top-dressing or gently mixing into soil under the tree's drip line. Apply mulch and water following planting and/or top-dressing for best results.

For turf, green roofs and nursery beds: Apply in the spring during root flush and repeat every month. Always water after application. Product can be top-dressed by hand, with a seed spreader, and/or gently mixed in to upper portions of the soil.

	At time of plating		Top-dressing	
	Weight	Volume	Weight	Volume
< 1 gallon pot	0.7-1.0 oz (20-30 g)	3-5 tbsp (45-75 mL)	0.2-0.5 oz (5-10 g)	1-2 tbsp (10-20 mL)
1-5 gallon pot	1.5-7 oz (40-200 g)	0.5-1 cup (120-240 mL)	0.5-1.75 oz (10-50 g)	2-8 tbsp (30-60 mL)
7-15 gallon pot	9-17.5 oz (250-500 g)	2.5-5 cups (590-1,200 mL)	2-4.5 oz (50-100 g)	1/2-1 cup (150-300 mL)
20-30 gallon pot	28-35 oz (800-1,000 g)	1/2-2/3 gallon (1,900-2,525 mL)	7-9 oz (150-250 g)	1.5-2.5 cups (475-630 mL)
Landscape, orchard, nursery trees (1.6-2 1/4 40-50 mm caliper)	17.5-35 oz (500 g-1 kg)	1/3-2/3 gallon (1,250-2,500 mL)	4.5-9 oz (125-250 g)	1.25-2.5 cups (315-630 mL)
Landscape, orchard, nursery trees (2-2 1/4 50-60 mm caliper)	35-53 oz (1-1.5 kg)	2/3-1 gallon (2,525-3,785 mL)	9-13.5 oz (250-500 g)	2.5-5 cups (630-950 mL)
Landscape, orchard, nursery trees (2 1/4 > 60 mm caliper)	53-70.5 oz (1.5-2 kg)	1-1 1/3 gallon (3,785-5,050 mL)	13.5-17.5 oz (500-750 g)	5 cups-1/2 gallon (950-1,260 mL)
Turf	10-100 lb/acre (4.5-45 kg/hectare)	3-30 gallons/acre (11-114 L/hectare)	10-50 lb/acre (4.5-23 kg/hectare)	3-15 gallons/acre (11-57 L/hectare)
Green Roofs	6.5-11.5 oz/ft ² (2-3.5 kg/m ²)	1-2 cups/ft ² (5-9 L/m ²)	1.5-3 oz/ft ² (150-200 g/m ²)	4-6.5 tbsp/ft ² (125-2.5 L/m ²)

Precautions:

KEEP OUT OF REACH OF CHILDREN

The active ingredient in LALRISE® START G is naturally occurring *Bacillus velezensis* cells. Persons allergic to bacteria 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 judgment of the physician in response to the reaction of the patient.

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.

LALRISE® START G 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 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, express 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. The terms of this Limited Warranty may not be varied by any oral or written agreement.

Guaranteed by:

Danstar Ferment AG / LALLEMAND PLANT CARE

Poststrasse 30

CH-6300 Zug, Switzerland

Marketed by and distributed by:

Lallemand Inc. / LALLEMAND PLANT CARE

6120 West Douglas Avenue

Milwaukee, WI 53218

1-844-590-7781

Product of Canada