

LALRISE VITA

For Agricultural Use
For Turf and Ornamental Use
Improves plant nutrition and growth

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

CONTAINS NON-PLANT FOOD INGREDIENT

Soil Amending Guaranteed Analysis

Active Ingredient

Total Microbe

Bacillus velezensis 2 x 10⁹ CFU/g

Inert Ingredients

Includes Yeast Extract

How it Works

LALRISE® VITA is a wettable powder based on 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 reservoirs, which promotes growth in young plants, increases crop homogeneity, even tree heights, root mass growth, winter vigor, flowering and yields.

Application Directions

For Agricultural Use:

Berries and Small Fruits, including but not limited to: Blackberry, Blueberry, Cranberry, Currant, Elderberry, Grape (table and wine), Gooseberry, Huckleberry, Kiwi Fruit, Loganberry, Raspberry, Strawberry

Cereals, including but not limited to: Barley, Buckwheat, Canary Seed, Corn (silage and grain), Durum Wheat, Millet, Oats, Quinoa, Rye, Sorghum, Spelt, Triticale, Wheat

Citrus Fruits, including but not limited to: Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Orange, Pummelo, Satsuma Mandarin

Cucurbit Vegetables, including but not limited to: Cucumber, Cantaloupe, Melon, Gourds, Pumpkin, Squash, Watermelon, Winter Squash

Fruiting Vegetables, including but not limited to: Eggplant, Pepper (Bell, Sweet and Hot), Okra, Tomatillo, Tomato

Herbs, Spices, and Mints, including but not limited to: Aniseed, Basil, Caraway, Chives, Dill, Fennel, Lavender, Marjoram, Oregano, Parsley, Rosemary, Sage, Savory, Thyme, Watercress

Leafy Vegetables, Cole Crops, and other Vegetables, including but not limited to: LEAFY VEGETABLES: Arugula, Bok Choy, Celery, Endive, Fennel, Lettuce (head and leaf), Napa Cabbage, Parsley, Radicchio, Rhubarb, Spinach, Swiss Chard. COLE CROPS: Broccoli, Brown Mustard, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage Collards, Kale, Kohlrabi, Mustard Greens, White Mustard. OTHER: Asparagus

Legumes (fresh and dry pulses), including but not limited to: Alfalfa, Beans, Chick Peas, Lentils, Lupin, Peas, Soybeans

Oilseeds, including but not limited to: Borage, Canola, Crambe, Evening Primrose, Flax, Gold of Pleasure, Hemp, Linseed, Meadowfoam, Mustard Seed, Poppy, Pumpkin Seed, Safflower, Sesame, Sunflower

Pome Fruit, including but not limited to: Apple, Pear, Quince

Roots and Tubers, including but not limited to: Beet, Potato, Sugar Beet, Sweet Potato

Stone Fruit, including but not limited to: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum, Prune

Tree Nuts, including but not limited to: Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Coconut, Filberts, Hickory Nut, Macadamia Nut, Pecan, Pistachio, Walnut

Tuber, Root and Bulb Crops, including but not limited to: Artichoke, Beet (garden and sugar), Carrot, Cassava, Celeriac, Chervil, Chive, Chicory, Dasheen, Garlic, Ginger, Ginseng, Horseradish, Jerusalem Artichoke, Leek, Onion, Parsnip, Potato, Radish, Rutabaga, Salsify, Shallot, Sweet Potato, Turmeric, Turnip, Yam

Misc. crops, including but not limited to: Avocado, Banana, Coffee, Globe Artichoke, Hops, Hemp, Mushrooms, Papaya, Plantain, Tobacco

For Trees, Turf and Ornamentals:

Indoor and Outdoor Trees, Shrub Seedlings, 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, Woody Ornamentals

Flowers, Bedding Plants, and Ornamentals, including but not limited to: Acchillea, African violet, Ageratum, Alyssum, Amaryllis, Anemone, Anthurium, Aster, Azalea, Begoinas, Calceolaria, Campanula, Carnation, Centaurea, Cerastium, Chrysanthemum, Cineraria, Coleus, Cyclamen, Daffodils, Dahlia, Daisy, Delphinium, Dianthus, Dieffenbachia, Freesia, Fushia, Gaillardia, Ganzania, Geraniums, Gerbera, Gladiolus, Gloxinia, Gypsophila, Hedera, Hyacinth, Impatiens, Iris, Kalanchoe, Liatris, Lilies, Lobelia, Marigolds, Matthiola, Monarda, Nigella, Pansy, Pelargonium, Petunias, Phlox, Poinsettia, Poppy, Primrose, Rhododendron, Rose, Rudbeckia, Salvia, Senecio, Sinningia, Statice, Sweet Pea, Tulips, Verbena, Vinca, Zinnia

Turf, including but not limited to: Lawns, turf grown for seed and sod, turf, golf courses, sod farms

APPLICATION METHODS

For best results, apply product under moist conditions (after a rain or irrigation) to soil or growth media, in the morning or late afternoon. Do not apply to dry soils or under high temperature conditions. Optimal application temperature is between 50°F and 86°F; 10 °C and 30 °C. Apply via low volume spray, drench or drip irrigation to soil or growth media.

Mixing instructions - Gradually mix LALRISE® VITA with water while agitating. Use immediately after preparing suspension. Continuously agitate while applying OR remix before each application. Do not keep suspension for longer than one day.

Compatibility - LALRISE® VITA can be tank mixed with most fertilizer solutions. Before mixing with pesticides, ask your supplier for compatibility advice.

APPLICATION TIMING

For Agricultural Uses:

Annuals: 1-2 applications per crop, at monthly intervals, from planting to emergence or at transplanting.

Perennials: 2-3 applications per crop, at monthly intervals.

For Trees, Turf and Ornamental Uses: Applications should be made when the buds first open in the spring. Repeat the treatments two or three times at monthly intervals. Fall applications can be made to boost the root system and ensure nutrient storage prior to dormancy.

APPLICATION RATES

For Seedling Trays: 0.66 – 1.66 oz. in 5 gal of water; 20-50 g in 20 L of water (0.1-0.25% concentration of product in water). Drench to the point of wetness. Avoid run off. Apply at monthly intervals. First application in seedling trays should only be after germination/root formation.

For Agricultural Uses:

- **Low volume spray:** 0.9 lbs/acre in 53-106 gal of water; 1 kg/ha in 200-400 L of water.
- **Soil drench:** 0.9 lbs/acre or 1 kg/ha. Include product towards end of drenching cycle to minimize product dilution. Apply to the point of wetness.

- **Drip irrigation:** Apply via irrigation systems with 0.9 lbs/11 gal water (stock solution) or 0.9 lbs/acre or with 1 kg/100 L water (stock solution) or 1 kg/ha.

For Trees, Turf and Ornamental Uses:

- **Low volume spray:** 0.9 lbs/acre in 53-106 gal of water; 1 kg/ha in 200-400 L of water.
- **Soil drench:** 0.9 lbs/acre or 1 kg/ha. Include product towards end of drenching cycle to minimize product dilution. Apply to the point of wetness.
- **Root ball drench:** Pre-drench root ball with approximately 3 gal or 10 L of water then apply 0.2-0.4 oz. or 5-10 g in 1.5 gal or 5 L of water.
- **Soil injection probes:** 0.2-0.4 oz. or 5-10 g in up to 1 gal or 4 L of water per tree. Injection sites should be evenly spaced under dripline of canopy.
- **Drip irrigation:** Apply via irrigation systems with 0.9 lbs/11 gal water (stock solution) or 0.9 lbs/acre or with 1 kg/100 L water (stock solution) or 1 kg/ha.

	Ounces (oz.) per plant	Gallons (gal) of water per plant	Grams (g) per plant	Litres (L) of water per plant	Number of applications
< 1 gallon pot	.004-0.01	0.1-0.3	0.1 - 0.4	0.25 – 1.0	2-3 at monthly intervals
1-5 gallon pot	0.02-0.1	0.3-1	0.5 – 2.5	1 - 5	2-3 at monthly intervals
7-15 gallon pot	0.1-0.2	1-3	3.5 - 5	5 - 10	2-3 at monthly intervals
20-30 gallon pot	0.2-0.4	3-5	5 - 10	10 - 20	2-3 at monthly intervals
Landscape trees	0.2-0.4	3-5	5 - 10	10 - 20	2-3 at monthly intervals
Orchards; Nursery field bed	1 lb/acre	26-106	1 kg/ha	100 - 400	2-3 at monthly intervals
Turf	1 lb/acre	53-106	1 kg/ha	200 - 400	2-3 at monthly intervals

Precautions

KEEP OUT OF REACH OF CHILDREN. The active ingredient in LALRISE® VITA is naturally occurring *Bacillus velezensis* NCIMB 30322 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. Do not wear contact lenses while handling the product.

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 of 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.

Storage & Handling Recommendations

Store bags in a cool, dry location in the original, unopened packaging. Do not expose to freezing or temperatures >95°F (>35°C). Use product before the expiration date. Unused product should be disposed of in accordance with applicable federal, provincial or state, and municipal laws and regulatory guidelines.

LALRISE® VITA 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>

Net Contents/Net Weight: 0.3 oz. (8.5 g), 2.2 lbs (1 kg), 11 lbs (5 kg)

Batch No.:

Expiry Date:

Guaranteed by:

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

Marketed by and distributed by:

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

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.