



Colossus®

BENEFICIAL STREPTOMYCES

CONTAINS NON-PLANT FOOD INGREDIENT

Streptomyces nigrescens strain MR 541 1X 10⁷ cfu/g

Information regarding the contents and levels of metals in this product is available on the Internet at www.blacksmithbio.com

Intended Uses: Discovered in an Idaho potato field, Colossus is a high concentration of a unique beneficial microorganism that naturally chelates iron, making it more available to some plants.

APPLICATION DIRECTIONS:

Compatibility:

Colossus can be tank mixed and dry mixed with most chemical fungicides, insecticides, and fertilizers unless otherwise restricted.

OUTDOOR AGRICULTURE PRODUCTION

Apply 3-12 oz. of Colossus in 10-200 gallons of water per acre depending on soil application type.

SOIL APPLICATION INSTRUCTIONS

1. *In-Furrow Applications:* Apply as an in-furrow spray at planting. Mount the spray nozzle so the spray is directed in the furrow directly on the seeds or seed pieces prior to coverage.
2. *Broadcast or Band:* Apply as a 15-cm band over the top of the seed row or as a broadcast spray after planting. Use higher rates for broadcast applications. Ensure incorporation into the seed zone within 24 hours of applications with rain or overhead irrigation.
3. *Overhead irrigation:* Apply with irrigation water, ensuring uniform coverage of the soil and incorporation of product into the seed zone.
4. *Surface drip irrigation:* Apply product with the first irrigation after planting or any time during crop life cycle.
5. *Transplant drench:* Prior to planting spray soak the growing media through the root zone or dip the transplants in solution of product and water.
6. *Shanked-In and Injected Applications:* Product can be shanked-in or injected into the soil pre or post planting.
7. *Post planting applications at any crop stage:* When applying post planting, it is important to irrigate in order to move the material into the seed, root or transplant zone.

SEED APPLICATION INSTRUCTIONS

Seed Spray or Slurry Coating: Apply this product through mist-type commercial seed treatment equipment, slurry or other comparable methods that provide thorough coverage of treated seed. Prior to planting, dissolve 1-6 oz. of Colossus in 1-4 oz of water per cwt of seed and spray directly on seed.

FOLIAR APPLICATION INSTRUCTIONS

Use 3-12 oz of Colossus in 10-150 gallons of water per acre.

COMMERCIAL GREENHOUSE AND NURSERY

Soil Drench: Use 4-6 oz of Colossus in 100 gallons of water to create solution. Apply solution as a drench to until soil is saturated just prior to run-off.

Hydroponics systems: Use 3-12 oz per 100 gallons of water. Reapply every time water is changed.

Foliar Spray: Apply 6-12 oz Colossus per acre. Dissolve Colossus in 50-100 gallons of water and apply to foliage and blossoms every 7 to 14 days. Spray wet to run-off

Colossus can be applied using hand-held backpack or ground spray equipment.

Manufactured and guaranteed by:
Blacksmith BioScience
25018 Spring Ridge Dr
Spring Texas 77386
www.blacksmithbio.com

**BLACKSMITH
BIOSCIENCE**



Net Weight – 16 oz (456 g)



COLOSSUS MAY BE USED ON ALL CROPS INCLUDING BUT NOT LIMITED TO:	INITIAL SOIL APPLICATION	FOLLOW UP SOIL APPLICATION
Potatoes All potatoes	3-12 oz per acre applied in furrow directly onto seed pieces at planting	3-12 oz per acre at emergence and just prior to canopy closure
Agronomic Field and Row Crops: Cotton, soy, corn (all types), canola, safflower, sunflower, wheat, lentils, peas and other agronomic field and row crops	1-3 oz/acre	3-12 oz/acre Reapply every 1-8 weeks
Berry Crops: Strawberries, blueberries, blackberry, raspberry, and other berry crops Cucurbit Vegetables: Cucumbers, melons, gourds, squash, cantaloupe, and other cucurbits Citrus: Orange, grapefruit, lemon, tangerine, tangelo, lime, and other citrus crops Fruiting Vegetables: Eggplant, sweet peppers, hot peppers, tomatoes, tomatillos, and other fruiting vegetables Grape: Wine grapes, table grapes, raisins and other grape crops Herbs, Spices and Mints: Sage, rosemary, thyme, peppermint, basil, oregano, hops and other herbs and spices Leafy Vegetables and Cole Crops: Asparagus, broccoli, brussels sprouts, cabbage, cauliflower, celery, collards, endive, kale, lettuce, mustard greens, parsley, spinach and other leafy vegetable crops Legume and Vegetable Crops: Snap and dry beans, lentils, succulent and dry peas Ornamentals: All indoor and outdoor ornamental plants grown in greenhouses, nurseries or field Pome Fruit: Apple, crabapple, pear, quince, mayhaw and other pome fruit Potatoes: All potatoes Root/Tuber and Bulb Crops: Garlic, onions, carrot, ginger, ginseng, horseradish, turnip and radish Small Grains: Rice, rye, millet and other small grains Stone Fruit: Apricot, cherry, nectarine, peach, plum, prune and other stone fruit Tree Nuts: Almond, pistachio, pecan, walnut, filberts and other tree nuts Tropical Fruits: Avocado, mango, papaya and other tropical fruits Turf: All turf, lawns and athletic fields of all kind Other Crops: Bananas / Plantains, Watercress, Mushrooms, Ginseng, Olives, Tobacco, Medicinal Herbs, Green leafy plants	3-12 oz/acre	3-12 oz/acre Reapply every 1-8 weeks

STORAGE AND DISPOSAL

Storage: Do not store in extremely high temperatures (above 130°F).
Disposal: Completely empty container. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY/DISCLAIMER

Manufacture warrants that this product is suited for the labeled use when applied according to label directions. Manufacturer makes no warranty of merchantability. There are no warranties that extend beyond the description on the face hereof and in no event shall manufacturer be liable for any consequential damages.