

Trichoderma Viride

1x 10¹⁰ cfu/g trichoderma viride powder

Introduction

Trichoderma viride is a high-efficiency organic biofungicide against soil borne pathogens affecting all crops & plantations. It inhibits the growth of many fungal plant pathogens by producing antibiotics and also by secreting lytic Trichoderma viride wrap around the pathogen fungi and produce antibiotics and extracellular enzymes, which lyses the cell wall of these pathogens that damage them. The invading fungus eventually collapse and disintegrates. Effective against diseases: It is a natural bio-fungicide, highly effective in controlling a wide range of soil borne crops disease caused by Fusarium, Rhizoctonia, Pythium, Schlerotinia, Verticillium, Alternaria, phytophthora, and other fungus.



Specification

Bacteria count : 2x 10⁹ cfu/g, 5 x 10⁹ cfu/g, 1x 10¹⁰ cfu/g

Fineness: 80-200 mesh screen

Moisture: 8%

25 kg / bag or as per customers request

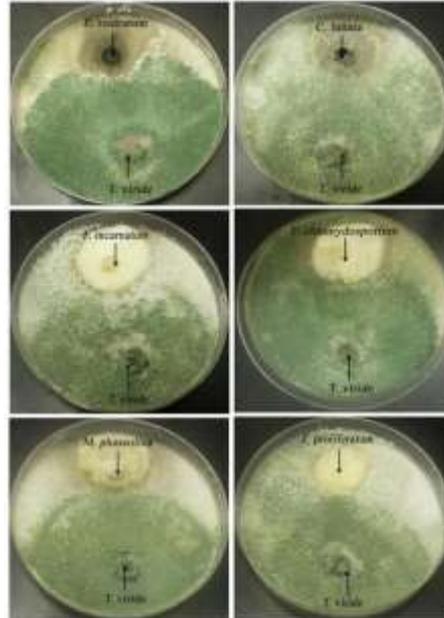
DISEASE CONTROL

- Root Rots
- Brown Rot
- Charcoal rot
- Fusarium wilts
- Rhizoctonia solani
- Damping off
- Anthracnose
- Macrophomina phaseolina

Antagonistic activity

Trichoderma Viride Strain inhibits some pathogenic fungi of soil-borne plant diseases:

- (A) *E. rostratum*
- (B) *C. lunata*
- (C) *F. incarnatum*
- (D) *F. chlamydosporium*
- (E) *M. phaseolina*
- (F) *F. proliferatum*



Principle

- ✓ Trichoderma Viride compete with other disease causing microbes for nutrients and space. With fast growth and reproduction rate, T. Viride can quickly absorb and utilize nutrients, water, space and oxygen in the soil, thus worsening the living environment of plant pathogens;
- ✓ Trichoderma viride, are well known for their production of several lytic enzymes and/or antibiotics, widely used in biocontrol of soilborne plant-pathogenic fungi
- ✓ Induces defense responses in crop plants (Induced resistance) Symbiosis and resistance induction: the co-growth of Trichoderma viride and plant roots activates the plant's internal defense system and improves the plant's disease resistance;
- ✓ Trichoderma viride mycelium will grow, twine and Pierce along the mycelium of plant pathogens and absorb the nutrients in the mycelium of plant pathogens, leading to the death of plant pathogens;
- ✓ Trichoderma viride increase the rate of plant growth and development, by developing more robust roots. These deep roots cause crops, such as corn, and ornamental plants, to become more resistant to drought.

Benefit

- ✓ Effectively prevent and control root rot, cataplexy, blight, wilt, verticillium wilt, anthrax, and other soil-borne diseases;

- ✓ Improve the soil, break the knot, improve the soil permeability and oxygen supply of the root system;
- ✓ Promote root growth, make crop growth more vigorous and increase crop yield, etc.
- ✓ Increase root growth and tolerance to drought.
- ✓ Increase the absorption of nutrients and the effective use of fertilizers
- ✓ Improve the light and efficiency of plants.
- ✓ Increase the rate and percentage of seed germination.

Dosage & Method

For seeds treatment, Apply 40 grams of Trichoderma Viride for 1 kg seeds, Mix required quantity of Trichoderma Viride with equal quantity of Rice gruel. The seeds are mixed in the slurry so as to have a uniform coating of the inoculant over the seeds and then shade dried for 30 minutes. The shade dried seeds should be sown within 24 hours. When it is applied at the same time as the seed, it colonizes the seed surface and kills not only the pathogens present on the cuticle, but also provides protection against soil-borne pathogens.

For seedling root dip, Mix 2 Kg of Trichoderma with 50 lits of water. In this mixture, keep the seedling roots in immersed condition for 10 minutes and use the seedlings for transplantation in the field.

For soil application, apply 2 kg Tricoderma mixed with 20Kgs of dried and powdered farm yard manure and then broadcasted in one acre of main field just before transplanting.

It is suitable for Sugarcane, Pulses, Oilseeds, Cotton, Vegetables, Banana, Coconut, Oil palm, Chillies, Lime, Coffee & Tea, Areca nut & Rubber, Flower crops and Spices

Caution

Trichoderma viride is a microbial fungus, mainly saprophytic, which can grow only when the soil has a certain humidity and temperature. It should be used in the soil, and avoid spraying on the stems and leaves; Avoid using chemical pesticides with strong acids and bases as much as possible; Trichoderma itself is harmless to crops, continuous use is better.

Packing and shelf life

2 year shelf life, 1 kg per foil bag, 25 kg per bag, Keep Tricoderma away from direct heat and sunlight. Store it in cool and dry place.

Storage

Keep Trichoderma away from direct heat and sunlight. Store it in cool and dry place. Once opened, should be use it within 30 days to prevent activation. Keep out of reach of children.

Trichoderma viride Colonizes Arabidopsis Leaves and Promotes Arabidopsis Growth

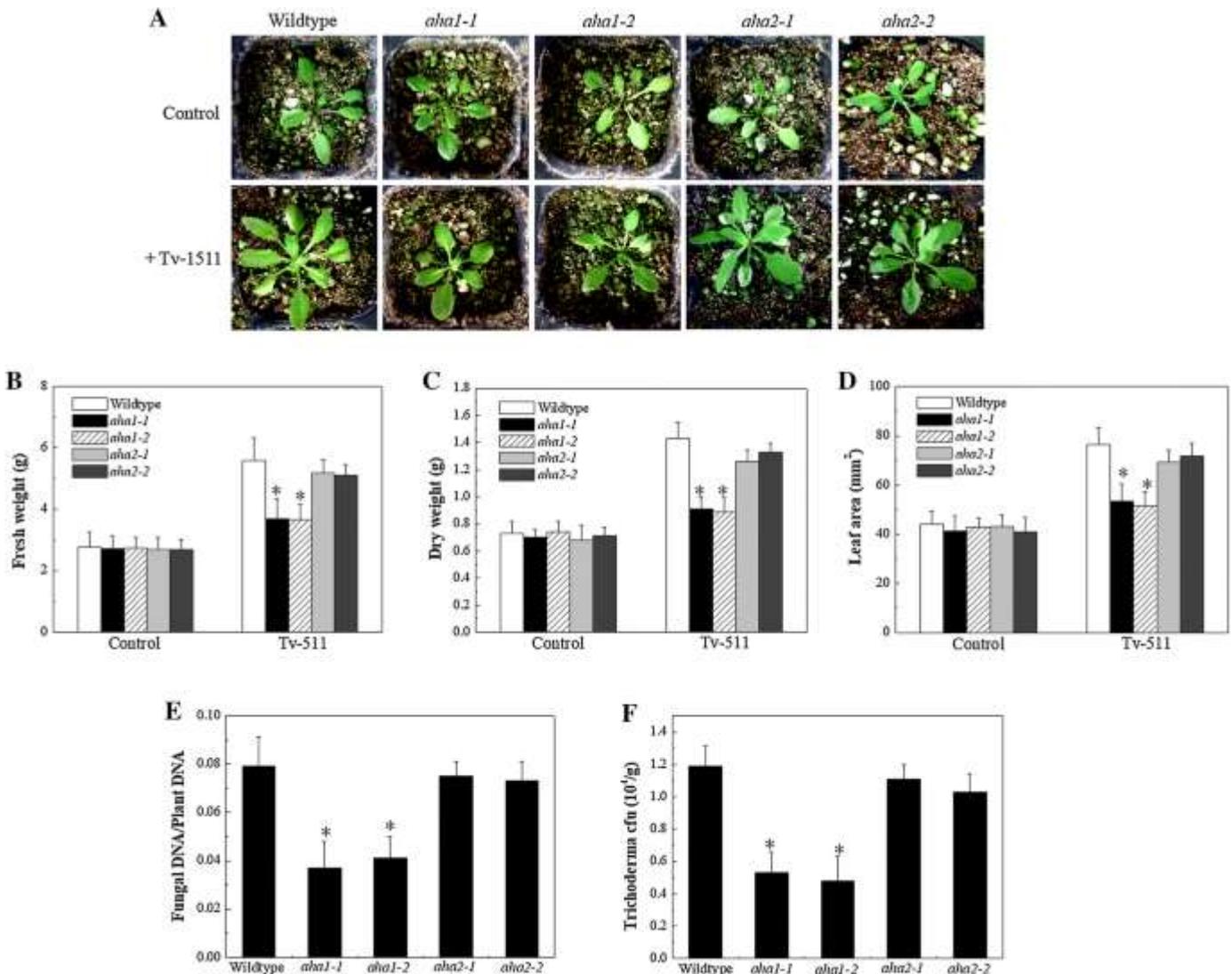


FIGURE: Effect of AHA-deficiency mutants on the growth and morphometric parameters of Arabidopsis induced by leaf colonization of *T. viride*. a-d Effect of AHA-deficiency mutants on the phenotype (a), fresh weight (b), dry weight (c) and total leaf area (d) of Arabidopsis inoculated with *T. viride* Tv-1511 for 10 days. e, f Analysis