

## T. Longibrachiatum

1x 10<sup>10</sup> cfu/g T. Longibrachiatum powder

### Introduction

Trichoderma longibrachiatum is commonly fungi of the rhizosphere inhabitants, have been widely used in agricultural applications due to its well-known biological control mechanism by colonising various ecological niches. It positively affect plants by stimulating plant growth, and protecting plants from fungal and bacterial pathogens. It is a natural bio-fungicide , highly effective in controlling a wide range of soil borne crops disease caused by Fusarium , Rhizoctonia , Schlerotinia , Alternaria , Macrophomina phaseolina , Geotrichum candidum and other fungus.



### Specification

Bacteria count : 5 x 10<sup>9</sup> cfu/g, 1x 10<sup>10</sup> cfu/g

Fineness: 200 mesh screen

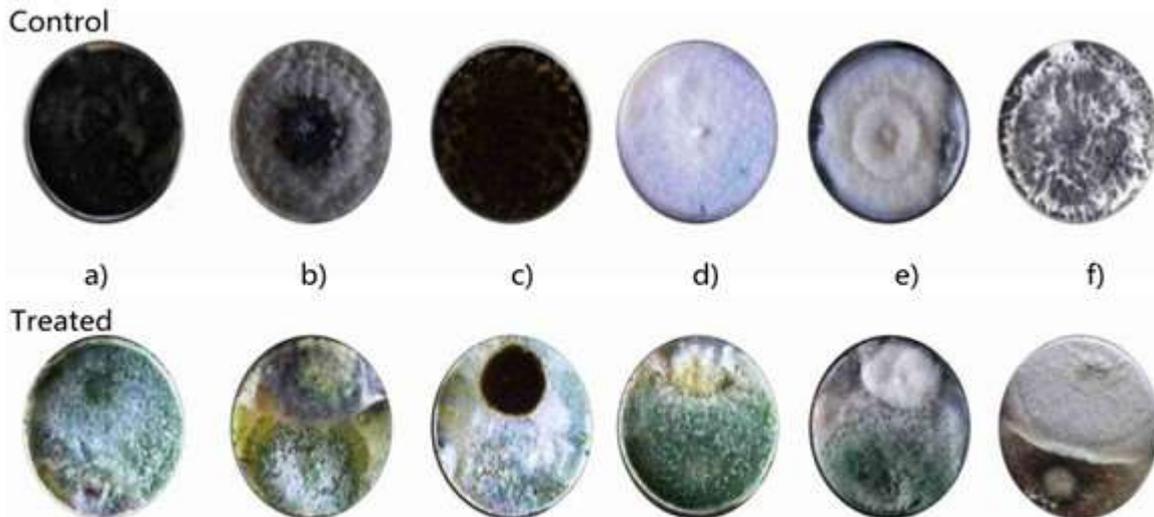
Moisture: 8%

25 kg / bag or as per customers request

### Antagonistic activity

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

- a) *Alternaria alternata*
- b) *Rhizoctonia solani*
- c) *Aspergillus niger*
- d) *Geotrichum candidum*
- e) *Fusarium oxysporum*
- f) *Macrophomina phaseolina*



## Principle

- ✓ Competing for nutrients and space, with fast growth and reproduction rate, *Trichoderma longibrachiatum* can quickly absorb and utilize nutrients, water, space and oxygen in the soil, thus worsening the living environment of plant pathogens;
- ✓ *Trichoderma longibrachiatum*, 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 longibrachiatum* and plant roots activates the plant's internal defense system and improves the plant's disease resistance;
- ✓ *Trichoderma longibrachiatum* 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 longibrachiatum* 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

- ✓ Delivers broad spectrum disease control across range of root disease
- ✓ Suitable as a primary control method within an IPM programme
- ✓ Improve soil condition without resistance and residue problems
- ✓ Compatible with fertilizers, organic fertilizers, biostimulants
- ✓ Promote the growth of root system, enhance the effect of absorbing nutrients and moisture
- ✓ Increase the crops potential yield and quality

## Dosage & Method

- ✓ Apply 1 kg per acre, as early as possible to the crop for optimal effect.
- ✓ Reapply after 4-8 weeks to extend root protection for season-long control, depending on the disease pressure.
- ✓ Can be applied by broadcast, hill dressing, drill fertilization, root-irrigation, Turn the soil after watering, the product should be applied preventatively before disease onset in the plants.

## Caution

*Trichoderma longibrachiatum* 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,

## 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.