



Biotoug
مبيد فطري بيولوجي
Bio-Fongicide

01. GENERAL INFORMATION

✓ **Trade Name:**

- BioToug

✓ **Ingredients:**

- 10% *Trichoderma harzianum*,
Trichoderma strain 1, *Trichoderma* strain 2,
Trichoderma strain 3, *Trichoderma* strain 4
- 1 000 000 CFU / g (10^6 CFU/g)

✓ **Formulation Type:**

- Soluble powder

✓ **Registration Number:**

- 20 59 310

BioToug is a biofungicide and biostimulant in wettable powder form, used as a preventive treatment. Its active ingredient is a beneficial antagonistic fungus, *Trichoderma harzianum*, which is widely distributed, particularly in soil. This product is designed to effectively combat soil-borne fungal diseases (*fusarium* and *rhizoctonia*). Additionally, it helps stimulate plant vegetative and root growth.



02 MODE OF ACTION

BioToug acts in several ways to combat fungal diseases and improve plants' vegetative and root biomass.

BioToug works through antibiosis, mycoparasitism, and competition for nutrition and space. Thus, it can induce systemic resistance in the plant by activating its defense system and stimulating its vegetative growth.

03 PRODUCT COMPATIBILITY

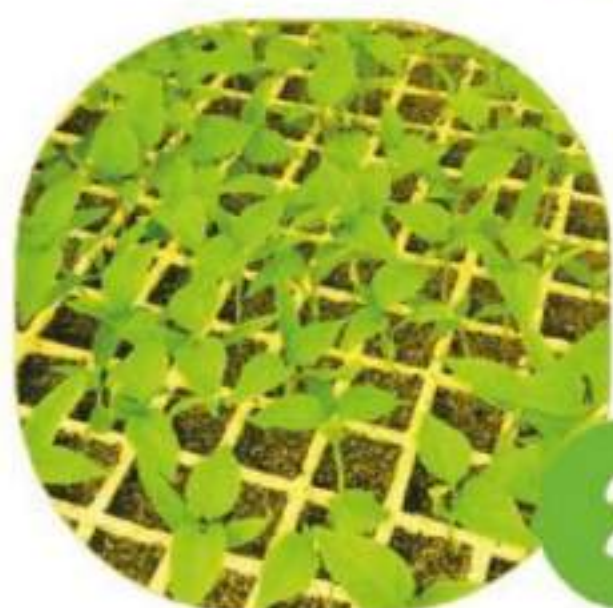
BioToug is compatible with most chemical products (fungicides, acaricides, and nematicides).

07. Mode of Use



Preventive application by soil spreading (15 days before transplanting)

1



Root dipping: Soak plant roots for 30 minutes before transplanting.

2

04 SPECTRUM OF ACTIVITY

BioToug is a broad-spectrum biofungicide effective against a wide range of soil fungal diseases, particularly Fusarium and Rhizoctonia.

05 TARGET CROPS

- Protected vegetable crops
- Open-field vegetable crops
- Fruit trees

06 STORAGE CONDITIONS

BioToug should be stored at a temperature between 8 and 10°C for up to 12 months from the date of manufacture.



Irrigation: Add to irrigation water.

3



Foliar spraying: Spray on leaves and vegetative parts.

4

08 GENERAL INSTRUCTIONS

- **Open fields:** 2 kg/hectare
- **Greenhouses:** 1-2 kg per 400 m²
- **Soil application:** 2 kg/ha applied directly to the soil around the plant base or incorporated into the planting furrow
- **Palm trees and fruit trees:** Mix 1 kg of Biotoug with 20-25 kg of manure. Apply directly to the soil around the tree base or incorporate into the planting furrow
- **Seed treatment:** 8-10 g/kg of seeds. Apply the recommended dose of BioToug to the seeds with sufficient water to form a suspension and coat them uniformly. Dry the seeds before sowing
- Can be mixed with compost or organic fertilizer
- Avoid using chemical products after applying the product
- BioToug is mainly effective at high temperatures (15°C to 45°C) and at pH 7

09 GENERAL INSTRUCTIONS

- Apply BioToug preventively before diseases become apparent
- Repeat applications every 7 to 14 days, or as needed, to maintain protection
- Apply BioToug early in the morning or evening when temperatures are cooler and humidity is higher
- Ensure good coverage of foliage, stems, and soil around the plant base
- Use a sprayer specifically designed for biofungicide application
- Follow all safety instructions when handling BioToug



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