TRICHO-V

IRA Biotech

Trichoderma viride For Healthy Soil

Trichoderma viride is a beneficial rhizosphere fungus that swiftly colonizes roots to form a protective microbial barrier, outcompeting harmful fungi while enhancing root architecture and nutrient uptake. By producing cell wall–degrading enzymes and bioactive metabolites and exhibiting mycoparasitism, it suppresses a broad range of soil-borne pathogens and activates plant defense mechanisms. The result is healthier roots, improved stress tolerance, and stronger crop establishment, vigor, and yield.

Product Features

Mode of Action

- Colonizes the rhizosphere rapidly and establishes itself around plant roots, forming a protective microbial barrier.
- Competes aggressively with harmful fungi for space and nutrients, limiting their establishment and spread.
- Produces a wide range of extracellular enzymes such as chitinases and glucanases that degrade fungal cell walls.
- Exhibits mycoparasitic behavior by attaching to pathogenic fungi, coiling around their hyphae, and penetrating them.
- Secretes secondary metabolites and volatile compounds that inhibit the growth of soil-borne pathogens.
- Enhances root development and nutrient uptake by improving root architecture and stimulating plant growth.
- Activates plant defense mechanisms, leading to increased resistance against stress and disease pressure.
- Improves overall soil microbial balance by promoting beneficial microflora in the root zone.

Expected Results

- Improved root health with reduced incidence of soil-borne diseases in the rhizosphere.
- Enhanced plant vigor and stronger root system leading to better nutrient uptake.
- Increased tolerance of plants to environmental and biological stress conditions.
- Overall improvement in crop growth, establishment, and yield performance.

Safety Directions

- Avoid inhalation of dust or spray mist
- Wash hands after use
- Use in well-ventilated areas

Environmental Protection

- Contains naturally occurring microorganisms
- Do not contaminate waterways with product or container



Product Analysis:

TRICHODERMA VIRIDE..... 1%
CARBOXY METHYL CELLULOSE..... 1%
DEXTROSE..... 98%

Physical Characteristics:

White Powder, Water Soluble, pH: 5.5-8.5

Activation & Application :

Application Rate:

- 100 grams per hectare

Activation & Application Method:

- Mix 100 g of IRA TRICHO V in 200Litres of water, add 3 litres of molasses, and leave for 24 hours for activation. Make up the final volume to 200 litres.
- Soil Application: Dilute the activated 200 litres in 700 litres of water per hectare and apply uniformly to the root zone through drenching or drip irrigation.
- Foliar Spray: Dilute the activated 200 litres in 400 litres of water and spray uniformly over one hectare.

Compatibility:

Compatible with most organic inputs.Avoid mixing with chemical fungicides, bactericides, or disinfectants.

Storage

- Store below 30°C in a cool, dry place
- Keep container tightly closed
- Protect from direct sunlight



