

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

Application:

Application Rate:

- ❖ 100 grams per hectare

Application Method:

- ❖ Soil application or via drip irrigation (fertigation)
- ❖ Dissolve 100 g in 700–1000 litres of water per hectare
- ❖ Apply uniformly to the root zone
- ❖ Foliar Spray 100g in 500 litres of water and spray for 1 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

