

NIPROT™

Trichoderma viride (TV) & *Trichoderma harzianum* (TH) for Control of Soil-borne Fungal Diseases



NIPROT™ is a formulation of potent antagonistic fungi (*Trichoderma viride* or *Trichoderma harzianum*) that can be used for control of a number of soil-borne fungal pathogens causing diseases in crops such as root, rhizome, stem, foot and collar rot, damping off and root knot nematode.

On application of NIPROT™, *Trichoderma* present in it, multiply and form a protective shield around the root system of plants and prevents attack by plant pathogenic fungi. *Trichoderma* also suppresses growth of pathogens by micoparasitism and by secreting toxic metabolites.

Formulations of NIPROT™ with *Trichoderma viride* or *Trichoderma harzianum*, having a minimum of 2×10^6 CFUs (Colony Forming Units) per gm, are available in convenient packing of 100g, 500g and 10Kg. Both formulations are registered with Central Insecticides Board (CIB), Govt. of India.

NIPROT™ has better and longer efficacy than traditional fungicides. Also, unlike other fungicides, it does not cause development of resistance in plants. There are no phytotoxic effects and yield is increased.

Recommendation : NIPROT™ can be used for coating seeds just before sowing, for nursery bed treatment, dipping cuttings or seedlings before transplantation and soil treatment in case of seasonal crops. NIPROT™ can also be used for soil application after multiplying on farm yard manure (FYM) and by soil drenching in case of perennial crops.

For seed treatment, mix 10g NIPROT™ with 10-20ml of water to make a slurry for treatment of 1kg seed just before sowing.

Drench nursery beds with NIPROT™ @ 5g/litre of water / m² area.

For cutting and seedling dip, mix 200g NIPROT™ in 15-21 litres of water and dip the cuttings / rhizomes / tubers / roots of seedlings for 10 minutes before planting.

For direct field application, mix 1-2 Kg NIPROT™ / 100 Kg in moist and well-decomposed FYM and keep for 10-15 days under a polythene cover in the shade. Turn over the mixture every 3 days to enable uniform multiplication of *Trichoderma* in FYM. Broadcast the fortified FYM over 1 acre before sowing. Maintain optimum soil moisture conditions after application for best results.

Working in Collaboration with Nature

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