



Black Pepper Plant Probiotics

Black Pepper Plant Probiotics Formulation by NTHRYS

Plant Probiotics Standardized by NTHRYS for Black Pepper Cultivation addresses below parameters in order to assist farming community to achieve better profits in Black Pepper Cultivation.

1. Increase in pepper yield and quality.
2. It protects the crop from pests and diseases, such as Root Rot, Pollu Beetle, and Leaf Spot.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Plant Vigor and Berry Size.
5. Increases Leaf Size and Photosynthetic Efficiency.
6. Increases Chlorophyll Content.
7. Increases Soil Enzyme Activity and the Quantity and Biodiversity of Viable Microorganisms.
8. Enhancement in Rhizosphere Activity.
9. Solubilization of Phosphorus.
10. Solubilization of Potassium.
11. Increase Soil Fertility.

NTHRYS Research Team has formulated Black Pepper Plant Probiotics Formulation using a battery of Microbial Consortium (> 20 strains) to address all the above Objectives.

NTHRYS Plant Probiotics should not be mistaken as Biofertilizers. They are next generation plant supporting microbiome to support respective farmers to gain good profits with their produce.

Application Process :

Soil Treatment Before crop initiation:

1. The soil is treated with **formulation**, before initiating Black Pepper planting.
2. 3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

Cutting Treatment :

1. Black Pepper cuttings are treated with **formulation**.
2. The cuttings are soaked in **formulation** for half an hour before planting. (Use a dilute solution **offormulation** for soaking).

Disease Management in Black Pepper:

1. Black Pepper suffers from various pests and diseases like Phytophthora Foot Rot, Slow Decline, and Spike Disease.
2. Spraying **formulation** on the plant as well as at the base and on the leaves would help prevent these diseases and pest infestations.

Probiotic Dosage at Various Growth Phases:

1. **After Planting:** 500 ml **offormulation**+ 150 lit water + 1.35 kg of Epsom salt one day before spraying per acre. This should be done immediately after planting the cuttings and before new growth begins.
2. **Vegetative Growth Phase:** 1 lit **offormulation**+ 200 lit water + 1.8 kg of Epsom salt one day before spraying per acre until plants are fully established.
3. **Pre-harvest Phase:** 2 lit **offormulation** added to 300 lit of water + 2.7 kg of Epsom salt one day before spraying per acre a few weeks before the first harvest to enhance berry development and quality. **formulation** Spraying and **formulation**+ **FYM** mixture (3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) per acre) addition can be done once per every two weeks during active growth periods.

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