

## Apple Plant Probiotics

# Apple Plant Probiotics Formulation by NTHRYS

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

1. Increase in fruit yield.
2. It protects the crop from pests and diseases, such as Apple Scab, Codling Moth, and Fire Blight.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Tree Vigor and Fruit Size.
5. Increases Stem Strength and Leaf Size.
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 Apple 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 Apple tree planting.
2. 3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

**Seed Treatment** : Not typically applicable for Apple trees as they are usually propagated via grafting or budding.

**Grafting/Budding**: The scion or bud is treated with **formulation** before grafting or budding to enhance the success rate and vigor of the graft or bud. (Apply a dilute solution **offormulation** to the scion or bud before grafting/budding).

**Disease Management in Apple Trees:**

1. Apple trees suffer from various pests and diseases like Powdery Mildew, Apple Rust, and Bacterial Canker.
2. Spraying **formulation** on the tree as well as at the base 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 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 trees are fully established.
3. **Pre-bloom and Bloom Phase:** 2 lit **offormulation** added to 300 lit of water + 2.7 kg of Epsom salt one day before spraying per acre. Repeat application during the pre-bloom and full bloom stages to enhance flower health and pollination success. **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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