

## Lemon Plant Probiotics

# Lemon Plant Probiotics Formulation by NTHRYS

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

1. Increase in fruit yield and quality.
2. It protects the crop from pests and diseases, such as Citrus Tristeza Virus, Citrus Canker, and Root Rot.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Tree Vigor and Fruit 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 Lemon 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 Lemon planting.
2. 3 Lit **offormulation**is mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

**Budwood Treatment** : Not typically applicable for Lemon as it is usually propagated via grafting.

**Grafting/Budwood Treatment:** The budwood or grafts are treated with**formulation**before grafting to enhance the success rate and vigor of the graft. (Apply a dilute solution **offormulation**to the budwood or grafts before grafting).

**Disease Management in Lemon:**

1. Lemon suffers from various pests and diseases like Scale Insects, Leaf Miners, and Greasy Spot.
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-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 months before the fruit ripens to enhance fruit development and quality. **formulation**Spraying and**formulation**+ **FYM** mixture ( 3 Lit **offormulation**is 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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*Issued by:*

**NTHRYS OPC PVT LTD**

Ph: +91 - 7093184748

Web: [www.nthrYS.com](http://www.nthrYS.com)

Email: [smo@nthrys.com](mailto:smo@nthrys.com)

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