

## Kale Plant Probiotics

# Kale Plant Probiotics Formulation by NTHRYS

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

1. Increase in leaf yield and quality.
2. It protects the crop from pests and diseases, such as Aphids, Cabbage Worms, and Black Rot.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Plant Vigor and Leaf 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 Kale 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 Kale planting.
2. 3 Lit **offormulation** is mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

**Seed Treatment :**

1. Kale seeds are treated with **formulation**.
2. The seeds are mixed with **formulation** for half an hour and dried under shade. ( 200 ml **offormulation** for 5kg of seeds ).
3. 1 to 2 ml **offormulation** is dropped on the soil where seed is sown.

**Transplanting:** Not applicable for Kale as it is typically direct-seeded or transplanted as seedlings.

**Disease Management in Kale:**

1. Kale suffers from various pests and diseases like Downy Mildew, Clubroot, and Kale Leaf Miner.
2. Spraying **formulation** on the plant as well as at the base would help prevent these diseases and pest infestations.

**Probiotic Dosage at Various Growth Phases:**

1. **Germination Phase:** 500 ml **offormulation** + 150 lit water + 1.35 kg of Epsom salt one day before spraying per acre. This should be done after the Kale seeds have germinated or immediately after transplanting seedlings.
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 harvesting to enhance leaf growth and nutritional content. **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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