

## Black Berry Plant Probiotics

# Blackberry Plant Probiotics Formulation by NTHRYS

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

1. Increase in fruit yield and quality.
2. It protects the crop from pests and diseases, such as Spider Mites, Raspberry Crown Borer, and Botrytis Fruit Rot.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Plant 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 Blackberry 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 Blackberry planting.
2. 3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

**Cutting Treatment** : Not typically applicable for Blackberry as they are usually propagated via cuttings or root divisions.

**Cutting/Root Division Treatment**: The cuttings or root divisions are soaked in **formulation** for half an hour before planting to enhance rooting and early growth. (Use a dilute solution of **formulation** for soaking).

**Disease Management in Blackberry:**

1. Blackberry plants suffer from various pests and diseases like Leaf Rust, Anthracnose, and Powdery Mildew.
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. **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 cuttings or root divisions 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-flowering and Flowering 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-flowering and flowering stages to enhance flower health and fruit set. **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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