



# BBA

BIOSOLUTION

Nurturing Nature's Solutions



## *Hydroponic*



### **BENEFICIAL BACTERIA**

Strengthens roots, enhances nutrient uptake, improves soil and water quality, and boosts plant immunity throughout all growth stages.



Boost  
Growth



Root  
Application



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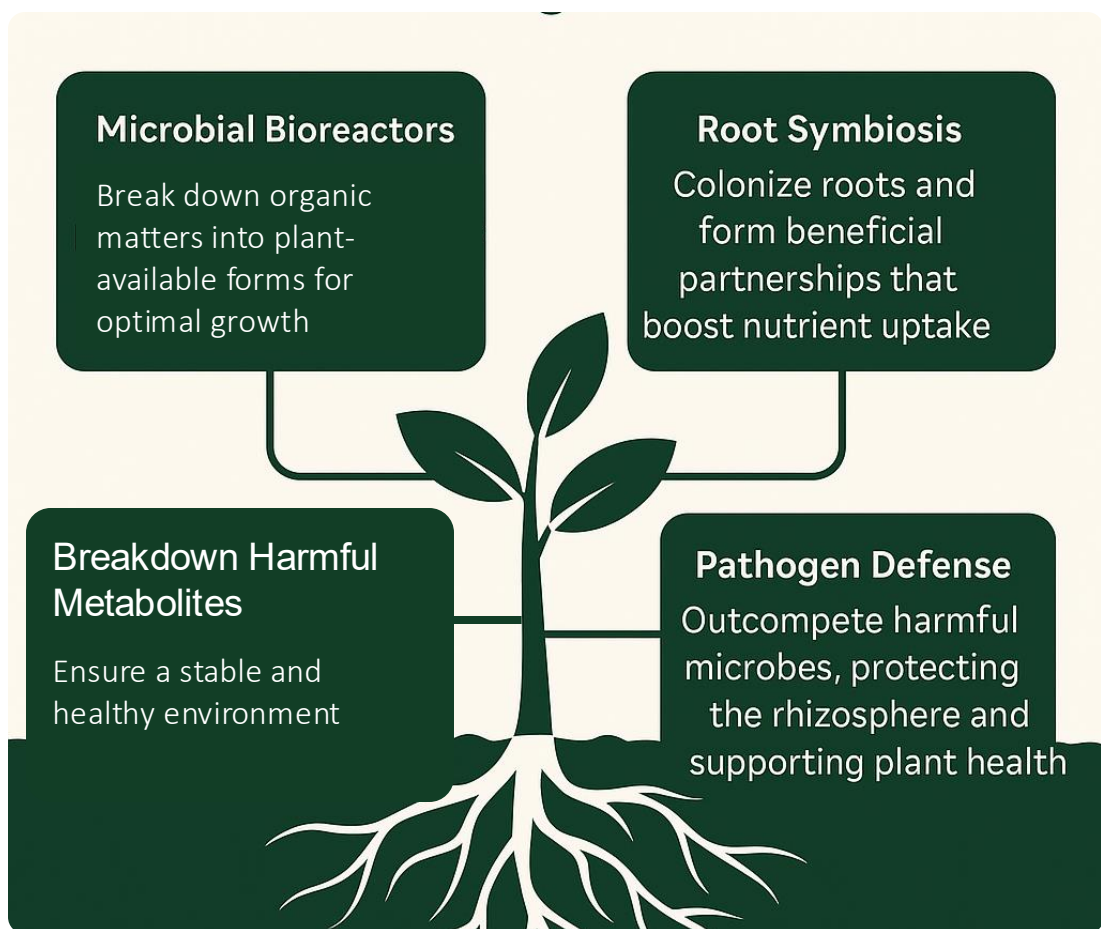


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This product is a premium microbial formulation specially designed to enhance plant health and productivity in hydroponic and soilless cultivation systems. Powered by a proprietary blend of naturally occurring beneficial bacteria, including *Lactic Acid Bacteria*, *Bacillus subtilis*, *Photosynthetic Bacteria*. Vital roots improves nutrient bioavailability, suppresses root diseases, and stabilizes water quality to create an ideal root-zone environment for vigorous, high-yield crops.

## ADVANTAGES

- **Enhanced Nutrient Uptake and Plant Growth:** Help break down organic matter and mineralize nutrients, encourage root development and increase overall plant vigor.
- **Disease Suppression and Root Protection:** Occupy space and consume nutrients in the root zone, limiting opportunities for harmful pathogens such as *Pythium* or *Fusarium* to establish.
- **Water Quality Stabilization and Microbial Balance:** Convert toxic nitrogen compounds into non-toxic forms, keeping the water environment stable.
- **Faster Growth Cycles:** Better root health and balanced water chemistry support faster plant development.



## Vital Roots Beneficial Bacteria – Application Details

- Do not underdose; overdosing is safe and ensures optimal results.
- To calculate total litres to be treated: Length x Width x Depth x 1000 = Total Litres

Situation	Treatment Rate	Comments
Soil, Hydroponics / Coco (both passive and active systems)	<ul style="list-style-type: none"><li>• Use it at 0.5ml per litre fortnightly all the way through the growing and flowering cycle.</li></ul>	Double the dosage at the first application to ensure beneficial bacteria dominate the ecosystem.

The above dose rate is a guideline that may need to be increased or decreased according to individual conditions, such as plant type and size, plant density, soil type, climate zone or with another microbial solutions. For further information regarding application rates and timings or compatibility, please contact BBA BioSolutions for technical support.

### CHARACTERISTICS

#### Living Microorganisms

Highly - Concentrated Aerobic Beneficial Bacteria

#### Package Sizes

500mL, 1L, 5L

#### Storage Information

Store in the closed, original container out of direct sunlight. Best stored between 5 - 45 °C for up to 18 months. DO NOT FREEZE.

**Always read and follow label instructions**



Shields the plant rhizosphere by outcompeting harmful pathogenic microbes.



Accelerates plant growth rates with natural growth-promoting properties



Specific selected bacteria strains that continually release nutrients.



Safe for use in soil, soilless and hydroponic systems.

### MAXIMISING PERFORMANCE

- Evenly apply when water temperature is above 10°C.
- Add it after adding your other nutrients and after pHing.
- Keep in original bottle, with cap tightly sealed.



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