

# PHOSPHOMICROBES

## ORGANIC AND INORGANIC PHOSPHORUS-SOLUBILIZING MICROORGANISMS



SOIL MICROBIOTA

**PhosphoMicrobes** owned by Microendo Inc., is a unique and patented bio-fertilizer on the market, whose action is based on the activity of the bacterium *Bacillus safensis*. This type of bacteria thrives on the surface of the roots, utilizing various substrates produced by the plant. One of the characteristics of *Bacillus safensis* is its high capacity for phosphorus solubilization.

**PhosphoMicrobes** makes the solubilization of phosphate in two ways: the first is the production of organic acids that act on the pH of the soil favoring the solubilization of inorganic phosphorus and releasing phosphate into the soil.

The other route of action is through phosphatases that act by releasing phosphate groups; Both pathways generate a greater amount of phosphate to be absorbed by the roots of plants.

**PhosphoMicrobes** has another remarkable aspect that is the ability to produce growth stimulating substances, because the bacterium accelerates the germination of the seeds, induces the growth of the root and root hairs and therefore the growth of the plant.

With the use of **PhosphoMicrobes** you can reduce phosphate fertilization by up to 50% and therefore reduce production costs.



## BENEFITS

- Organic and inorganic Phosphorus-solubilizing microorganisms.
- Induces new roots.
- Promotes plant growth.

## BIOLOGICAL COMPOSITION

*Bacillus safensis*  $1 \times 10^{14}$  UFC/ml

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### AGRONOMIC USE

**PhosphoMicrobes** guarantees a 100% organic and high quality product that can be used for the following crops, although this recommendation is not limited to other agricultural crops: **Vegetables in general:** Cabbage, cauliflower, broccoli, compass cabbage, radish. **Fruit trees in general:** Avocado, citrus, peach, guava, mango, coconut, banana, **papaya**. **Solanaceae:** Tomato, chili, potato, eggplant, pepper **Cucurbitaceae:** Cucumber, melon, watermelon, pumpkins. **Seeds:** maize and sorghum wheat, barley and oats. **Berries:** blueberry, raspberry, blackberry, blackberry. **Other crops:** Celery, asparagus, lettuce, onion, chives, carrot, walnut, pineapple, vine, sugar cane, cotton, agaves, oil palm.

### APPLICATION METHOD

**PhosphoMicrobes**, comes from a fresh and metabolically active crop, so its use is recommended at the time of receipt. Very early or during the afternoon, avoiding long hours of sun and solar radiation.

The product is applied injected to the root or in drench directly to the base of the plant. Always make sure that the implement to be used has not had a previous bactericide or fungicide. Wash the pump thoroughly before use. Preferably use neutral soap powder.

Do not eat, drink or smoke during applications, wash your hands before and after using this product.

It is recommended to dilute per hectare, 1 Liter of **PhosphoMicrobes**, in natural water as clean as possible for crops of 1-9 kg and for crops of 10-50 kg use 2 liters per hectare and of 60-100kg use 3 liters per hectare. Do not dilute by more than 500 L per liter of **PhosphoMicrobes**.

### APPLICATION FREQUENCY

It is recommended to make 2-3 applications per hectare for optimal colonization of the plant with a frequency of 7-10 days each, which will achieve in the plant a healthy nutrition and defense of the crop.

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### DOSE

Crop	<i>General</i>
Dose	1 L/1 ha
Frequency	7-10 days
Application	3 applications

### COMPATIBILITY WITH OTHER PRODUCTS

**PhosphoMicrobes** is compatible with some fertilizers.

In case of making an application of any bactericide, fungicide, pesticide or insecticide it is necessary to review the residence time of said product and ensure that the application of **PhosphoProtect** is outside this period, as well as wash well the material with which the application is going to be made with neutral soap to ensure that traces of the product are avoided.

Consult your technical advisor for compatibility with other products.

It is not recommended to apply **PhosphoMicrobes** if you plan a subsequent application of bactericides, fungicides or any similar product because this would end the population of microorganisms applied in **PhosphoMicrobes**.

### STORAGE AND TRANSPORT CONDITIONS

Store the product in cool, covered places at room temperature. Do not expose it to the sun's rays.

### TOXICITY

**100%** organic product.

It is not phytotoxic at the recommended concentrations, stages and forms of application. In case of ingestion or discomfort at the time of use, induce vomiting and consult your doctor.



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If you think of microorganisms, think of Microendo.

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