

IRONMICROBES

IRON ASSIMILATING MICROORGANISMS



SOIL MICROBIOTA

IronMicrobes owned by Microendo Inc., is a unique and patented biofertilizer in the market, whose action is based on the activity of the bacterium *Pseudomonas monteilii*. This type of bacteria naturally resides in the soil near plant roots, where they establish a mutually beneficial relationship (symbiosis) with the roots.

IronMicrobes bacteria sequester the form of iron present in the soil (Fe^{3+}), by inducing the production of molecules called phytosiderophores. In turn, the bacteria produce enzymes that protect the plant against abiotic stress (catalases and oxidases).

IronMicrobes helps to obtain the iron present in the soil that is not in a form available for the plant, and therefore reduces the costs of iron fertilization.



BENEFITS

- Iron Assimilating Microorganisms
- Source of Iron for the plant.
- Improves photosynthesis.

BIOLOGICAL COMPOSITION

Pseudomonas monteilii 1×10^{14} UFC/ml

AGRONOMIC USE

IronMicrobes 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.

DATA SHEET

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APPLICATION METHOD

IronMicrobes, comes from a fresh and metabolically active crop, which is why it is recommended for use at the time of receipt. Very early or during the afternoon, avoiding long hours of sun and solar radiation.

The product is injected into 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 powdered soap. Do not eat, drink or smoke during applications, wash your hands before and after using this product.

Is recommended to dilute 1 liter of **IronMicrobes** per hectare 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 for 60-100 kg use 3 liters per hectare. Do not dilute more than 500 L per liter of **IronMicrobes** because microbial crops require a minimum concentration to act.

APPLICATION FREQUENCY

It is recommended to make 2-3 applications per hectare for an 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.

DOSE

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

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COMPATIBILITY WITH OTHER PRODUCTS

IronMicrobes is compatible with some fertilizers. In case of applying a bactericide, fungicide, pesticide or insecticide, it is necessary to check the residence time of said product and make sure that the application of **IronMicrobes** is outside this period, as well as wash the material with which the application is going to be made well 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 **IronMicrobes** if a subsequent application of bactericides, fungicides or any similar product is planned as this would kill the population of microorganisms applied with **IronMicrobes**.

STORAGE AND TRANSPORT

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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