

NITROGEN MICROBES

NITROGEN-FIXING MICROORGANISMS



SOIL MICROBIOTA

NitrogenMicrobes owned by Microendo Inc., is a unique and patented bio-fertilizer on the market, whose action is based on the activity of *Azospirillum brasilense* bacteria. This type of bacteria lives naturally in the soil near the roots of plants, from where they establish a mutually beneficial relationship (symbiosis) with the roots.

NitrogenMicrobes bacteria take the nitrogen that is abundant in the air and transform it into ammonium, nitrates and nitrites, which they deposit in the soil so that plants can take advantage of it through their roots. In turn, bacteria produce hormones (indoleacetic acid) that stimulate plant development.

NitrogenMicrobes can reduce up to 60% the chemical nitrogen fertilization and therefore. It reduces production costs, in addition, fixes atmospheric nitrogen and deposits it in the soil, from where the plant root obtains it.



BENEFITS

- Atmospheric nitrogen fixation and ammonium production.
- Increase root development
- Induces new shoots

BIOLOGICAL COMPOSITION

Enterobacter kobei 1×10^{14} UFC/ml

AGRONOMIC USE

NitrogenMicrobes 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

NitrogenMicrobes comes from a fresh and metabolically active crop, so its use is recommended upon 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 **NitrogenMicrobes**, 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 60-100 kg use 3 liters per hectare. Do not dilute in more than 500 L per liter of **NitrogenMicrobes** 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
Application	3 applications

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COMPATIBILITY WITH OTHER PRODUCTS

NitrogenMicrobes 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 make sure that the application of **NitrogenMicrobes** is outside this period, as well as washing well the material with which the application is going to be made with neutral soap to make sure to avoid traces of the product.

Consult your technical advisor for compatibility with other products.

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

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



DATA SHEET



If you think of microorganisms, think of Microendo.

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