MICROBIAL INOCULANT & NATURAL ROOTING BIOSTIMULANT

Rizobac

NPK 0.5 - 1 - 3

Contains beneficial soil microorganisms in a population of 1×10¹¹ cfu (colony forming units) per liter



It stimulates the root system, enhancing rooting and fast recovering from transplanting shock and it enhances root penetration and expansion of all crops

Net Content

□ 4 lt □ 10 lt □ 20 lt

Produced by:





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PROPERTIES

For use as rooting biostimulant

- √ Ideal rooting medium for all types of plantlets.
- Ensures the quick and safe establishment of all transplanting crops in the soil.
- Improves the physicochemical properties of the soil and increases the root penetration even in concrete soils, while at the same time it contributes to the better aeration of the soil.
- ✓ Supplements the organic matter of the soil which is consumed due to intensive cropping.
- ✓ Increases the cation exchange capacity (CEC) of the roots.
- ✓ Stimulates the cellular divisions of the root tissue (mitosis) that result in the rapid growth of the root.

For use as microbial inoculant

- Enriches the soil with beneficial microorganisms that live either free or in symbiosis with the plant roots and secrete substances which promote both the root system growth and the health of the plant.
- Eliminates the entry gates of the soil pathogens in the root system (mainly fungi).
- Increases the Nitrogen (N) in the soil and also increases the availability of the soil nutrients and micronutrients to the plants.
- Improves the biological structure of the soil creating an ideal environment for the growth of vigorous and high yield crops.
- Contributes to the growth of highly productive plants with great resistant capacity to the soil plant pathogens.

Rizobac is a microbial inoculant containing beneficial soil bacteria that occur naturally in the soil. Most of these bacteria have the capacity to form spores (gram-positive).

Science has documented but it is also field proven that the specific species of bacteria contained in *Rizobac* create an excellent soil environment that promotes the development of the root system, contributes to a better plant nutrition and fortifies plants resistance against stress caused by various environmental and biotic factors.

Furthermore, *Rizobac* contains natural growth regulators (cytokinins, auxins, gibberellins, betaines e.g.), amino-acids, monosaccharides, oligosaccharides, polysaccharides, vitamins (including B12, B2 and C), micronutrients, humic acids, fulvic acids and oils. The rich in nutrients substrate of *Rizobac* is an ideal combination of necessary for the plants substances that stimulates the growth of the root system, enhances the rooting and achieves a rapid establishment of the transplanting crops in the soil. In addition it increases the penetration of the roots in the soil as well as the development of the roots for all crops.

USAGE APPLICATION RATES

Tomato, Eggplant, Pepper, Cucumber: Greenhouse crops: 5-10 l/ha. Open field crops: 2.5-5 l/ha. Apply right after transplanting with the first watering. Repeat every 2-4 weeks.

Watermelon, Melon, Leafy vegetables, Legumes, Aromatic plants: 1.5-3 I/ha at sowing or at transplanting or right after transplanting. Repeat every 2-3 weeks.

Tobacco: 2.5-5 l/ha. Apply at planting with the water of transplanting. Repeat at the period of growth.

Strawberry: 2.5-5 I/ha. Apply at transplanting and repeat every 3-4 weeks.

Potato: Dip the potato seeds in a solution of 150 ml/100 l of water. Foliar sprays at ratio of 100ml/100 l of water every 3-4 weeks.

Trees, Vineyard, Ornamentals: 2.5-5 l/ha 2-3 times per year by watering around the root zone. For new plantings apply 5 l/ha right after transplanting.

Nursery beds: 100-200 ml/100 l of water.

Nurseries: 0.5-1 I/1,000 I of water. Apply by watering. Repeat every 15 days.

Lawns: 5-10 I/ha. Repeat every 3-4 weeks.

Hydroponics: 0.5 I/1,000 I of water by injecting through system. Replenish with 200 ml/1,000 I of water every time water is added in the network.

Foliar sprays: 1 I/1.000 I of water.

(Conductivity (ds/m): 34 Salinity (ppt): 20,4 pH: 7,0

Approved for use in organic agriculture according to Reg. (EC) 889/2008: Anex I; (Fish meal, Humic acids) RESTRICTION: Humic acid extract can be used in organic farming in addition to good farming practices (crop rotation, compost etc.) but not as a substitute. Do not provide more than 20% total N plant requirement.

MIXING INSTRUCTIONS AND COMPATIBILITY

Rizobac can be mixed with fertilizers. fungicides and other chemical products. Read and follow the mixing instructions written on the label of the chemical products. Apply all of tank mix solution in the same day. It must NOT be mixed with bactericides or soil disinfectants. Rizobac must be applied after soil disinfection. Apply 48 hours after the application of any bactericide or soil disinfectant. It must NOT be mixed with products that contain any type of hyperoxide. Apply Rizobac 24 hours after the application of such products. Rizobac is not phytotoxic.

STORAGE

The product should be stored at normal room conditions. IT MUST NOT FREEZE. Keep it out of direct sun light or any heat source. After use do not allow the lid open. Empty containers should not be reused. Keep out of reach of children.

CAUTION

In case of contact with skin or clothes, wash thoroughly your skin with water and soap. In case of contact with eyes, flush with plenty of water. If irritation remains, contact medical help.

SHAKE WELL BEFORE EACH USE

The Safety Data Sheet is provided to the professional user if requested.