

## SOIL ACTIVATOR WITH BENEFICIAL BACTERIA

# Bacta-Mix

**Beneficial soil bacteria:  $1 \times 10^{11}$  cfu\***

**Organic Nitrogen (N) 5.50 %**

(\*cfu: colony forming units)

**Bacta-Mix** is a soil activator - organic fertilizer formulated in water soluble powder which contains spores of beneficial soil bacteria. The rich microbial content of **Bacta-Mix** consists of the following 6 different strains of bacteria:

*Bacillus Pumilis, Bacillus Subtilis, Bacillus Licheniformis, Bacillus Megaterium, Bacillus Megaterium vP, Azotobacter*

The role of these bacteria in the soil is versatile. Bacilli *Bacillus pumilis*, *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus megaterium* form auxins and other phytohormones that help in the creation of a large and dense tassel in the root. The strain *Bacillus Megaterium vP* is capable of creating substances which dissolve the insoluble in the water phosphorus of the soil by converting it into forms easily assimilable by plants. *Azotobacter* are free-living in the soil bacteria which bind atmospheric nitrogen and release it in the form of ions that is later converted in the nitrate form which is absorbed by the plants.

### PROPERTIES AND USES:

- Stimulates and promotes the growth of the root system.
- Assists in the increase of the productivity of plants.
- Fortifies the vigour of plants.
- Promotes the growth of crops.
- Increases gradually the content of the nitrogen and the assimilable phosphorus in the soil.
- Improves the soil conditions for the production of productive and healthy plants.
- Facilitates the root penetration.
- Increases the ability of plants for nutrient and water uptake.

**HUMOFERT**



Net content

20 g

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## **APPLICATION:**

**Bacta-Mix** is recommended for soil applications through the irrigation - fertilization system after it has been diluted in an appropriate bacterial growth solution (e.g. BACTA-FOOD) for the activation of the microbial population. **Apply all the envelope's content in a single application.**

*Instruction:* Dilute 20g BACTA-MIX in 1 liter of liquid bacterial growth solution BACTA-FOOD and let it for 2 hours at normal room temperature 20 - 25 °C while agitating periodically. Then apply the solution in the tank and water.

*Note:* Because the dust might be stuck on the walls of the file, emptying the content must be conducted carefully in order to use all the bacterial load of the product.

## **APPLICATION - APPLICATION RATES:**

**Tomato, Eggplant, Pepper, Cucumber:** Greenhouse: 200 g/ha. Open field cropping: 200 g/ 2-3 ha. Apply right after transplanting. Repeat every 2-4 weeks.

**Water melon, Melon, Leafy vegetables, Legumes, Aromatic plants:**

200 g/ 3-5 ha during sowing or transplanting or right after transplanting. Repeat every 2-4 weeks.

**Strawberry:** 200 g/ 2 ha. Apply after transplanting and repeat every 3-4 weeks.

**Trees, Vineyard, Ornamental plants:** 200 g/ 2 ha 2-3 times throughout the year by drenching around the rootsphere. For new plantations apply 200 g/ha right after transplanting.

**Seedbeds:** 20 g/1,000 l of water.

**Nurseries:** 20 g/500-1,000 l of water. Apply through watering. Repeat every 15 days.

**Lawn:** 200 g/ha. Repeat every 3-4 weeks.

**Hydroponics:** 20 g/1,000 l of water by running through the system. Replenish 20g/3,000l of water each time water is added in the net.

**MIXING INSTRUCTIONS AND COMPATIBILITY:** **Bacta-Mix** must always be applied in combination with some growth bacterial solution (e.g. BACTA-FOOD) according to the instructions written on the application method of the product. Other than that it is recommended not to mix **Bacta-Mix** with other products. In case this is not feasible, read and follow the mixing instructions written on the label of the rest of the chemical products. It must NOT be mixed with other bactericides or soil disinfectants and copper formulations. **Bacta-Mix** must be applied after the soil disinfection. Apply 48 hours after the application of such products. It is not phytotoxic even if it is applied at an application rate higher than the recommended.

**STORAGE:** The product should be stored at normal room conditions. Keep out of direct sun light or any heat source. Empty containers should not be reused. **Keep out of reach of children.**

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