

SOIL ACTIVATOR WITH BENEFICIAL BACTERIA

Bactilis-S

Beneficial soil bacteria: 1.5×10^{10} cfu*

Organic Nitrogen (N) 5.50 %

(*cfu: colony forming units)

Bactilis-S is a soil activator - organic fertilizer in the form of water soluble powder containing beneficial soil bacteria of the genus *Bacillus* in a lyophilized form. **Bactilis-S** contains the following species:

Bacillus pumilus, *Bacillus subtilis* and the bacterial strain *Bacillus subtilis* GB03

As soon as **Bactilis-S** is applied in the soil the bacteria are activated, colonize quickly the plant roots and start producing substances-metabolites such as auxins and other natural hormones, which improve rooting, promote root and plant growth, increase plant vigour, trigger the defence mechanisms of the plants and finally fortify the resistance of the root system against various biotic and abiotic stress factors. It is scientifically proven that the beneficial bacteria of **Bactilis-S** form a symbiotic association with the root system, creating a protective shield for the root and restricting the access and the establishment of other microorganisms (mainly soil fungi) to the root system.

PROPERTIES:

- Improves rooting.
- Promotes the plant growth and fortifies plants vigour.
- Prevents the invasion and the establishment of the soil pathogens on the plants' root and also reinforces the defence mechanisms of the crops.
- Creates a protective shield for the root because the beneficial bacteria of **Bactilis-S** compete with the soil pathogens for space and nutrients, inhibiting their installation and proliferation on the plants' root.
- Fortifies the resistance of the plants against environmental stress factors due to substances (e.g. salicylic acid) that are secreted by *Bacillus pumilus*.
- Improves the soil conditions for the growth of productive and healthy plants.
- Increases the nutrient uptake by the roots of the plants.

Produced by

HUMOFERT



Net weight

20 g

1 Ermou & Theotokopoulou str., 144 52 Metamorphosis

Tel. +30 210 284 5891, Fax. +30 210 281 7971

Web Site: www.humofert.gr E-mail: info@humofert.gr

APPLICATION:

Bactilis-S is recommended for soil applications through fertigation - irrigation 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 of the envelope's content in a single application.**

Instruction: Dilute 20g **Bactilis-S** in 1 liter of liquid bacterial growth solution BACTA-FOOD and keep it for 2 hours at normal room temperature 20 - 25 °C 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.

APPLICATIONS-APPLICATION RATES:

Legumes, Leafy vegetables, Celery, Onions, Herbs, Aromatic plants : 50-100 g/ha. Apply at sowing or transplanting.

Tomatoes, Peppers, Fruit vegetables : 50-100 g/ha. Apply at transplanting. Repeat every 14-28 days.

Melons, Cucumbers & other cucurbits : 50-100 g/ha. Apply at transplanting. Repeat every 14-28 days.

Strawberries : 50-100 g/ha. Apply at transplanting. Repeat every 14-28 days.

Trees, Vineyard : 100-200 g/ha 2-3 times per year by drenching around the rootsphere. For new plantations apply 200 g/ha right after transplanting.

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

Shrubs, Bushes, Vine plants : 10 g/100 l of water. Apply at transplanting. Repeat every 15-30 days.

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

Hydroponics : 10 g/1,000 l of water by running through the system. Replenish 5 g/1,000 l of water each time water is added.

Ornamental plants : 20 g/100 l of water. Apply at transplanting. Repeat every 15-20 days.

COMPATIBILITY: **Bactilis-S** can be mixed with fertilizers, fungicides and other chemical products. Read and follow the mixing instructions written on the label of the rest of the chemical products. Apply all of tank mix solution on the same day. It must NOT be mixed with other bactericides or soil disinfectants. **Bactilis-S** 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 peroxide. Apply **Bactilis-S** 24 hours after the application of such products. **Bactilis-S** is not phytotoxic to plants.

STORAGE: The product should be stored at normal room conditions. Keep 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.**

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.