

MICROBIAL INOCULANT - ORGANIC
FERTILIZER - SOIL AMENDMENT

Bactilis

NPK 3 - 0.5 - 1

bio

Approved for use
in organic agriculture

Produced by

HUMOFERT



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1 L

SYNTHESIS

Nitrogen (N) 3.0%, Phosphorus (P₂O₅) 0.5%, Potassium (K₂O) 1.0%, Mono- and Oligo- Saccharides, Condensed Fermented Extracts, Dextrose, Natural Soil Amendments, Natural Wetting Agent
Conductivity (ds/m): 45,2
Salinity (ppt): 22,6
pH: 4,0-4,5

GENERAL INFORMATION

Bactilis is a liquid microbial inoculant containing beneficial bacteria of the genus *Bacillus* in a rich in nutrients liquid substrate. **Bactilis** contains the following bacteria: *Bacillus subtilis* GB03, *Bacillus subtilis* and *Bacillus pumilus*. The bacteria are in the form of endospores inside the plant. As soon as **Bactilis** is applied in the soil, spores quickly germinate and the bacteria that occur start proliferating and colonizing the plant root. In parallel, bacteria start producing substances-metabolites which improve rooting, plant growth and vigour. The organic liquid substrate of **Bactilis** helps microorganisms proliferate and establish their colonies on the roots.

It is scientifically proven that *Bacillus subtilis*, *Bacillus subtilis* GB03 and *Bacillus pumilus* create a natural shield for the root that does not allow soil fungi to penetrate the root system and attack the plants. In addition they create a healthy soil for the growth of vigorous high yield crops. **Bactilis** is used to reinforce the natural defense mechanisms of vegetables, lawn, ornamentals, herbs and trees. Furthermore, **Bactilis** is a fine organic fertilizer that supplies plants with macro and micro nutrients in a readily assimilated form. At the same time **Bactilis** is an excellent liquid soil amendment that improves physicochemical properties of the soil, increases soil microflora, chelates the soil nutrients, boosts plant growth and increases crop yield.

STORAGE

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

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RECOMMENDED APPLICATION RATES PER CROP

Crop	Dosage	Recommendations
Legumes, Leafy Vegetables, Celery, Onions, Herbs, Aromatic plants	2 - 5 liters per ha	Apply during sowing or transplanting.
Tomatoes, Peppers, Fruit Vegetables	2 - 5 liters per ha	Apply during transplanting. Repeat every 14-28 days.
Melons, Cucumbers & other cucurbits	2 - 5 liters per ha	Apply during transplanting. Repeat every 14-28 days.
Strawberries	2 - 5 liters per ha	Apply during transplanting. Repeat every 14-28 days.
Trees, Vineyard	5 - 10 liters per ha	Apply 3-4 times a year.
Nurseries	1 - 2 ml per liter of water	Water the discs, frames or pots after planting.
Shrubs, Bushes, Vine plants	0,5 liter per 100 liters of water	Apply during transplanting by watering the rootsphere.
Lawn	10 liters per ha	Dilute in an appropriate amount of water and spray every 21-28 days.
Hydroponics	1st Application: 40 ml per 100 liters of water	Run through system.
	Repetition: 15 ml per 100 liters of water	Replenish each time water is added.
Ornamentals	15 - 30 ml per 4 liters of water	Apply during transplanting and repeat every 14-28 days.

APPLICATION RATE OF SPRAY IN NURSERY

Ratio 1:400 250 ml **Bactilis** in 100 liters of water. When necessary, repeat every 14 days.

MIXING INSTRUCTIONS AND COMPATIBILITY

Bactilis 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** 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** 24 hours after the application of such products. **Bactilis** is not phytotoxic to plants.

USE AND APPLICATION

Bactilis can be used in ornamental nurseries and vegetables cultivated in pot, bench or basket which are grown in the greenhouse or in the open field. It can be used for indoor or outdoor ornamentals. Apply **Bactilis** throughout the growing season of the plant. Use it in all types of greens, perennial crops, cut flowers, shrubs, seedbeds, trees, leafy crops, vegetables, herbs and potted plants. Since **Bactilis** is a homogenous solution that is 100% water soluble, it can be applied through all drip irrigation systems and sprayer systems. It is most effective as a soil drench or a soil surface sprayer.

CAUTION

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. **Keep out of reach of children.**

Safety Data Sheet is available to the professional user if requested.

SHAKE WELL BEFORE EACH USE

Approved for use in organic agriculture according to Reg. (EC) 889/2008: Annex I; (Hydrolyzed proteins). Restriction: Do not provide more than 20% total N plant requirement.

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