Healthy Land
BIOPREPARATIONS

Biologicals for organic gardening

Catalogue 2024

Healthy Land® is a brand of biologicals based on beneficial microorganisms, which increase the resistance of plants to stress factors and give them a balanced nutrition. The products are certified for organic gardening by Organic Standart and FiBL.

Healthy Land® biologicals work via many different mechanisms supporting the entire plant microbiome and soil health.

The ingredients are derived from the nature and they are 100% safe for the environment. Our microbiologists find the strongest beneficial soil microorganisms to create the Healthy Land biologicals. They are safe for people, pets, bees and fish and they do not pollute the underground water.

All Healthy Land biologicals contribute to the soil health and as a result to the organic yields. We protect biodiversity and lead to the better plant health.

Grow organic with Healthy Land®!

MAIN GOAL

Our goal is to make an organic gardening available for all people!

Healthy Land Team

All our strains are derived directly from the nature:


Soil →

Labour →

Manufacturing →

→

Field tests →

Formulation →

→ FiBL Regulatory →

Agroshops/DIY

Why should you use Soil Improver?

The phytopathogens often remain on plant residues, so it is really important to sanitize the soil

To restore soil fertility

To improve soil structure (looseness, moisture capacity, aeration)

In spring it is necessary to enrich the soil with beneficial microflora to improve in the future NPK nutrition of the plant and to increase the effectiveness of applied organic or mineral fertilizers.

In autumn the soil must be treated. It is important to create healthy soil microbiome.

Soil Improver

Ecostern®

Bio soil and plant aid

Microbiological soil and plant aid for improving the soil, which accelerates decomposition of plants residues and increases the nitrogen content in the soil

Product details

Sanitizes the soil

Improves the natural soil fertility

Increases the biological activity of the soil

Characteristics

The type of product	microbiological
Packaging	500 ml
Preparative form	liquid
The period of use	spring, summer, autumn

Benefits

- Soil improvement and development of beneficial microflora
- NPK nutrition
- Increasing soil fertility
- Decomposition of plants residues
- Improvement of soil structure

Composition

- *Azotobacter Chroococcum* (Natural N-fixing bacteria)
- *Bacillus subtilis*
- *Trichoderma lignorum*
- *Paenibacillus polymyxa* (PK-mobilizing soil bacteria)
- *Enterobacter, Enterococcus bacteria*

Product description

Intensive gardening depletes the soil every year and as a result it loses its fertility.

The more microorganisms in the soil, the faster the organic matter rots and the faster the soil becomes fertile.

Soil Improver® is a biological product that consists of beneficial microorganisms which are destructors, N-fixers and PK-mobilizers.

Soil Improver® accelerates the decomposition of organic matter and the formation of humus in the soil. It contributes to the restoration and increases the soil fertility.

The phytopathogens often remain on plant residues, so it is really important to sanitize the soil.

Safe for humans, fish, birds, bees and the environment. Certified for organic farming.

Application

Methods of application in outdoor, greenhouses and garden

Soil improvement in spring	10-15 ml	5 l of water	1 acre
Spraying	20 ml	5 l of water	1 acre
Watering	10-15 ml	10 l of water	2 m²

Once per season and after each harvest in the greenhouse.

Improvement of the soil in summer during the growing season:	5 ml	5 l of water

watering once a month

Improvement of the soil and decomposition of plants residues in autumn (after harvest)	10-15 ml	5 l of water	
Spraying	20 ml	5 l of water	
Watering	10-15 ml	10 l of water	

Once per season and after each harvest in the greenhouse.

Improving the soil for indoor plants	5 ml	2 l of water

watering once a month

Bottle cap volume

15 ml

Shelf Life:
24 months at temperatures between 4 °C and 10 °C or 12 months at temperatures between 10 °C and 15 °C.

Important: This biological can be used with other approved plant nutrition and protection products

Why do plants need Nitrogen (N), Phosphorus (P), Potassium (K)?

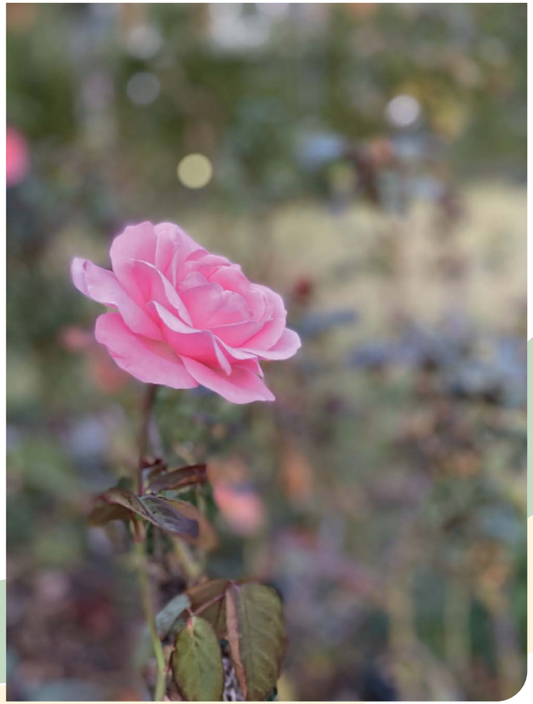
Nitrogen takes part in the plant growth and fruiting. Nitrogen nutrition actively affects the growth of the green mass of the plant. Phosphorus is one of the main elements of plant nutrition. Improved phosphorus nutrition of plants in the early phases of their life accelerates their development, besides it fertilizers the growth of the root system as well.

With a balanced supply of **phosphorus** a plant begins the reproductive phase quicker and has a resistance to adverse weather conditions (low temperatures, droughts etc.)

Plants need phosphorus nutrition most of all during flowering and fruit formation.

Potassium is an important nutrient for plants, which increases their resistance to stress and contributes to the better development of shoots. It also helps to prevent a lot of fungal and bacterial diseases, improves the quality and quantity, taste and shelf life.

Only bacteria are able to provide the plant with natural, safe nutrients and help the plant to absorb the organic matter, which is difficult to access.



Live Fertilizer Bio plant aid

Organic-balance®

Microbiological plant aid for stimulating the strong immunity and resistance of plants to stress factors

Product details

- Stimulates the growth and improves the development of plants
- Boosts the nutrient intake
- Increases the resistance of plants to stress factors

Characteristics

The type of product	microbiological
Packaging	500 ml
Preparative form	liquid
The period of use	spring, summer, autumn, winter

Benefits

- Provides plants with balanced NPK- nutrition
- Stimulates the process of seed germination
- Strengthens the plants immunity
- Promotes growth and enhances resistance to the environmental stress
- Improves a quality and a quantity of products

Composition

- *Azotobacter Chroococcum (*Natural N-fixing bacteria)
- *Bacillus subtilis*
- *Paenibacillus polymyxa (PK-mobilizing soil bacteria)*
- *Lactobacillus (Lactic acid bacteria)*

Product description

LIVE FERTILIZER Organic Balance® is a biofertilizer that contains a mixture of different strains of microorganisms, natural N-fixing, PK-mobilizing and other beneficial bacteria, that strengthen the immunity of weakened plants. Besides Live fertilizer provides the growth of the root system and vegetative mass, balanced nutrition of plants with micro- and macroelements in the available plant form. **Live Fertilizer** is suitable for indoor plants as well.

Live Fertilizer accelerates the emergence of homogeneous seedlings and increases the energy of seed germination. It prevents plants from a wide range of diseases without a resistance.

Thanks to **Live Fertilizer** plants get all necessary vitamins and microelements, besides it provides the powerful stimulation of plant growth and development. By the way this biological increases a harvest by 10-30%, helps to reduce the cost of mineral fertilizers by 15-30% and at the same time it improves soil fertility, that is why we advise you to use it from early spring to late autumn.

Safe for humans, fish, birds, bees and the environment. Certified for organic farming.

Advice from agronomists

It is necessary to start using the biological **LIVE FERTILIZER®** from seed treatment up to the gathering harvest. As a result you will get better conditions for plants growth and for the process of chlorophyll formation, which gives such a green colour thereby providing plenty of green pigment. On the other hand thanks to this biological more sugar accumulates in the plant and provides with better taste and well-formed fruits.

Application

Culture	Application methods		
	Pre-sowing treatment of seeds, tubers, bulbs	Root treatment (watering)	Foliar treatment (spraying) of plants during the growing season
Tomatoes, cucumbers, cabbage and other vegetables Flowers Melons, watermelons Celery, parsley, parsnip, dill	35 ml / 500 ml of water	35 ml / 10 liters of water without limitation during 7-14 days	(2-4 treatments) 35 ml / 10 liters of water
Onion, garlic	35 ml / 10 liters of water		
Beans Beet			
Potato		—	
Fruity and decorative trees, bushes, grapes, strawberries and other berries	—		

Application features

- shake before using
- use the ready mixture on the day of prepearing
- seed treatment shouldn't be done under direct sunlight (better in the shade)
- treatment of growing plants should be done in the morning or in the evening (in cloudy and calm weather)
- treatment of plants is allowed during flowering and fruiting

Bottle cap volume
15 ml

Shelf life: 24 months at 4 °C - 15 °C

Important: this biological can be used with other approved plant nutrition and protection products

Fitobact® Bio plant aid

Microbiological plant aid for strengthening plants health

Product details

- Strengthens plants immunity
- Prevents fungal and bacterial diseases
- Improves plants health

Characteristics

The type of product	microbiological
Packaging	500 ml
Preparative form	liquid
The period of use	spring, summer, autumn, winter

Benefits

- Prevention from a wide range of diseases
- Strength of the plant immune system
- Stimulation of plant growth and development
- Increasing productivity and the taste qualities of fruits and vegetables

Composition

Bacillus subtilis in an amount of at least $1,0 \times 10^9$ CFU/cm^3

Safety precautions

In case of contact with skin, remove its residues with a napkin and wash the affected area with soap and water. In case of contact with eyes, rinse thoroughly with plenty of water.

Shelf life: 3 years at 0 °C to 20 °C

Safe for humans, fish, birds, bees and the environment. Certified for organic farming.

Soil treatment

Plants residues and soil can be also sprayed with a solution of the product 10-20 ml / 10 l of water and the soil must be loosened before.

Application features

- Shake the product before using
- Treatment should be carried out avoiding direct sunlight, in cloudy weather or in the evening
- The ready solution can be stored for a day in a cool and dark place
- To increase the effectiveness of this biological we recommend you to add **Liposam®** to the working solution

Important: this biological can be used with other approved plant nutrition and protection products

Bottle cap volume

15 ml

Application

Culture	Application methods			
	Pre-sowing treatment of seeds	Treatment of plant roots before planting 100 pcs	Root treatment	Foliar treatment (spraying)
Vegetables (cucumbers, tomatoes, peppers, eggplants, melons, watermelons, cabbage, beet, corn, zucchini)	5-10 ml/ 500 ml of water	10 ml/ 3-5 liter of water	5-10 ml / 10 l of water	5-10 ml/10 liters of water
Legumes (peas, soybeans, beans, lentils, beans, chickpeas), Sunflower		—	Irrigation is done under the root when you plant the plants in the soil and further with an interval of 7-10 days per seedling or per 1 m^2 of vegetable and fruit crops. After treatment, the plants are watered, the soil is mulched	3-4 times with an interval of 7-10 days
Potatoes, onions, garlic	10-20 ml/ 2-5 liters of water	—		Starting with the emergence of seedlings, and further during the growing season, 3-4 times with an interval of 7-10 days
Fruit and berry crops Seedlings of fruit trees	—	10 ml/ 10 l of water	10 ml/ 10 l of water	An overdose of the product does not affect the development of the plant and its fruiting
Flowers: - Seeds - Tubers	5-10 ml/ 500 ml of water 10-20 ml/2-5 l of water	10 ml/ 3-5 l of water	—	—
Lawn grass	5-10 ml/ 500 ml of water	—	—	—

MycoHelp® Bio plant and soil aid

Multicomponent microbiological plant and soil aid for stimulating powerful root system and promoting resistance

Product details

- Stimulates root system growth
- Prevents fungal and bacterial diseases
- Increases the area of absorption of nutrients

Characteristics

The type of product	microbiological
Packaging	500 ml
Preparative form	liquid
The period of use	spring, summer, autumn, winter

Benefits

- Preventive action against: root rot, black leg, alternaria, phytophthora, rhizoctoniosis, septoriosis, fusarium, bacteriosis, etc
- The Trichoderma fungus penetrates directly into the root and forms an ectomycorrhiza, which helps to strengthen plant immunity and absorb nutrients without resistance
- Relieves stress from sudden temperature changes and drought
- Powerful root system

Composition

- *Trichoderma*
- *Bacillus subtilis*
- *Azotobacter chrococcum,*
- *Enterobacter sp, Enterococcus*

Product description

Mycohelp® increases the resistance, relieves different kinds of stress and improves the supply of plants with moisture. You will see the improvement of the soil occurs due to the increase in the biological activity of the soil.

Shelf life: 12 months at 4 °C to 10 °C or 6 months at 10 °C to 15 °C.

Safe for humans, fish, birds, bees and the environment. Certified for organic farming.

Application features

Before use, the product is thoroughly shaken, then the recommended application rate is dissolved in the required volume of water and used in the form of working solution
The biological working solution is prepared on the day of treatment, if necessary, stored in a cool dark place for 4 hour
Before use, mix it to get a homogeneous solution
Treatment should be carried out avoiding direct sunlight, in cloudy weather or in the evening
To increase the effectiveness of the biological **MycoHelp®** we recommend to add **Liposam®** to the working solution

You can also improve the soil (before sowing seeds and planting seedlings) 30 ml / 10 liters of water and then just water the soil. Sowing seeds or planting plants is allowed immediately after tillage.

Application

Culture	Application methods		
	Planting, replanting (seedlings, seedlings, bushes)	Root treatment (watering)	Foliar treatment (spraying) of plants during the growing season
Vegetable crops of outdoor and indoor ground(tomatoes, cucumbers, cabbage and other vegetables) Strawberry, blueberry Flowers (garden, indoor)	15 ml / 10 l of water 0,3-0,5 l of working solution per plant (well)	15-20 ml / 10 liters of water	15-20 ml /10 liters of water
Grapes, raspberry	30 ml / 10 liters of water 0,5 l of working solution per plant (well)	We recommend to water until soil is optimally moist	Spray plants 4 times with an interval of 15-20 days
Fruit trees	30 ml / 10 liters of water 1 l of working solution per plant (well)		

Attention! Sediment or film can be formed on the surface of the liquid. In this case, for uniform spraying of the product working solution, it is advisable to filter it before using

You can also improve the soil (before sowing seeds and planting seedlings) 30 ml / 10 liters of water and then just water the soil. Sowing seeds or planting plants is allowed immediately after tillage.

Bottle cap volume

15 ml

Important: this biological can be used with other approved plant nutrition and protection products

Interesting to know!

Liposam® does not form a continuous film, but a net like an elastic bandage.

This is possible due to the high-molecular structure of polymer fibers, which are very elastic and at the same time resilient thanks to their spatial structure. They gently wrap the plant and thereby do not interfere with its growth, respiration and photosynthesis.

Bio adhesives are substances that contribute to better wetting of plants due to a decrease in the surface tension of water. The use of Liposam® increases the effectiveness of the use of other products for plants care (protective products, fertilizers, plant growth stimulants, etc.). The use of Liposam® improves the penetration of the active substance of the product into the plant almost in 10 times compared to biologicals without adhesive.

Liposam® is a composition of natural biopolymers with adhesive. Liposam® is used for pre-sowing treatment of seeds and during the growing season in order to fix other plant care products on the surface of the leaves.

Liposam® increases the effectiveness of products with which it is combined, contributes to moisture retention and growing organic yields.

LIPOSAM® Bio adjuvant

Bio adjuvant and wetting agent for fixing plant care products on the leaves

Product details

- Fixes the biologicals and other plant protection and nutrition products on the planting material, ensures their close contact with the treated surface
- Forms a protective elastic net that retains moisture, does not destroy the natural shell of the seeds, breathing and photosynthesis
- Protects plants during the growing season from sunburn, drought and other stresses
- Provides better absorption of macro/micronutrients during foliar feeding

Composition

Biopolymers of natural origin with adhesive properties

Characteristics

The type of product	bio adjuvant
Packaging	500 ml
Preparative form	gel
The period of use	spring, summer, autumn, winter

Benefits

- Fixes on a plant or seed, prolongs the effect of protective preparations, prevents washing away by rain
- Reduces the loss of plant care products during processing from runoff
- Improves the supply of micro- and macroelements, biologicals to plants
- Provides protection of seeds and plants from mechanical damage and drying
- Preserves moisture on the root system and leaves of plants

Application

- Pre-sowing seeds treatment
- Pre-planting potato tubers and bulbs treatment
- Application together with biologicals and chemical plant care products and nutrition preparations by plants spraying during the growing season
- Pre-planting seedlings treatment with soaking roots

Shelf life: 3 years at 0 °C to 20 °C

Safe for humans, fish, birds, bees and the environment. Certified for organic farming.

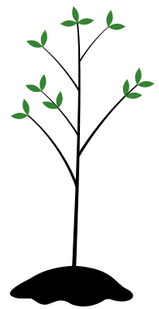
Application

Culture	Application methods		
	Pre-sowing treatment of seeds	Root treatment (watering)	Foliar treatment (spraying of plants leaves)
Vegetable crops: cucumbers, tomatoes, peppers, eggplants, beets, cabbage, watermelons, melons, zucchini, corn	5 ml/ 0,5 l of water	5-10 ml/ 2-5 l of water	5-10 ml/ 10 l of water
Legumes: peas, soybeans, beans, lentils, beans, plantain		—	
Potatoes (tubers), bulbs (50-100 kg)	5-10 ml/ 2-5 l of water	—	
Fruit crops: strawberries, raspberries, gooseberries, currants and others	—	5-10 ml/ 5-10 l of water	
Seedlings of fruit trees	—		
Flowers - seeds - tubers	5 ml/ 0,5 l of water 5-10 ml/ 2-5 l of water	5-10 ml/ 2-5 l of water	
Grass for lawns	5 ml/ 0,5 l of water	—	

Important: this biological can be used with other approved plant nutrition and protection products

Bottle cap volume

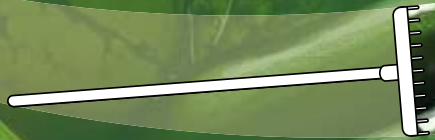
15 ml



Notes

Healthy Land
BIOPREPARATIONS

GROW ORGANIC!



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