



Greenacle Bioactivator

(User Guide)

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About

Our full product line is certified ORGANIC under the European Community regulations which govern organic production, labeling and control of animal and human feedstuffs. All of our products can be sold and used in the eco--systems of agriculture in all member states of the European Union without special permission.

Usage and Our Product Line

The scientific research has proven that:

- Plants treated with our products are developing 50% more roots.
- Consequently 20% higher yield was achieved by using fewer fertilizers.
- Our product reduced the need for pesticides spraying in an intensive and integrated farming.
- The treated plants are more resistant in dry or very rainy seasons.

Treating soil with our products permanently improves biological activity. With that it is normalizing in the natural way: soil fatigue, erosion, and concentration of harmful biological substances in the soil caused by pesticides, acid rain etc.

Our Products Ingredients and Properties

Our products are (Ascophyllum Nodosum) wrack seaweed concentrates and therefore are not comparable to any other product in the market.

The wrack seaweed products are produced according to the known method of extraction. However, the follow up extraction process used for our products is completely different from known methods. The final effect is extraction of special activation substance "oligosaharid", which stimulates growth of fine roots.

Wrack seaweed are reach in the composition: they contain over 70 microelements, vitamins, amino acids, teralgin acids. Poly-urinary acids in the substance stimulates the formation of humus and have function of heavy metal saturation (make them internal).

Our products does not contain effective microorganisms; therefore it is actually food for useful microorganisms. Due to the rich composition and unlocked cells the food is immediately available, which leads to the increased level of microorganisms in soil as well as plant.

Ingredients

Carbon (C)	19.3%	Zinc (Zn)	5.00 mg/kg
Nitrogen (N)	3.40 mg/kg	Copper (Cu)	2.60 mg/kg
Phosphorus (P2O2)	800 mg/kg	Nickel (Ni)	9.40 mg/kg



Potassium (K ₂ O)	18.70 mg/kg	Boron (B)	29.00 mg/kg
Calcium (Ca)	3.473 mg/kg	Selenium (Se)	0.07 mg/kg
Magnesium (Mg)	1.31 mg/kg	Iron (Fe)	403.00 mg/kg
Sulfur (S)	6.175 mg/kg	Mercury (Hg)	< 0.10 mg/kg

Analysis of the dry substance in mg/kg
(Our products properties are independent from ingredients)

- When saving make sure the temperature does not exceed 40° Celsius.
- Measures against freezing are not necessary.
- Shelf life of originally closed containers (unopened) is minimal 24 months.
- Substance in recommended doses is completely harmless to the humans, animals and plants. However, make sure to keep it out of reach of children.

Main Properties

State: liquid

Color: brown/black

Freezing: lower than -5° Celsius

Depolymerization starts above 40° Celsius

Capacity of the ion exchange:10,000 mEq/100g

Specifics and Competitive Advantage

Our product differs from the competitive products because it contains “unlocked cells” of brown seaweeds oligosaccharides.

Unlocked cells allow plants better absorption and activation in the process of photosynthesis. In the ground they have the function of pre-biotic, which initiate necessary microbiological processes of metabolism of nutrients.

Unique technology, with which we have unlocked cells of algae *Ascophyllum nodosum*, was developed in 18 years to the optimum.

Our product, bio-activator from brown seaweeds with unlocked cell structure is real innovation on the market regarding effects and results in plant cultivation.



Certificates

The product has European ECO certificate for usage in agriculture, in livestock, and human consumption.

Our products full product line is certified under the European Community regulations, which governs organic production, labeling and control of animal and human feedstuffs. All our products can be sold and used in the eco-systems of agriculture in all member states of the European Community without special permission.

How it Works

Bio-activator initially increases root layer of the plants. That significantly improves the absorption and exploitation of nutrients, while plants better tolerate stressful situations such as drought and disease.

Gel like substance (alignat) binds on the leaves of plants, which protects against desiccation and against infections.

When we use pesticides together with bio-activator, we can reduce pesticide dosing for 50%. Alignat allows better pesticide distribution and connection, which improves their effectiveness.

Biological activity in the ground is improved already in the first year of the bio-activator usage, which leads to the better biological balance between useful and harmful animals/organisms.

Consequently, the increased level of nitrogen and CO₂ is on plants disposal due to the largely improved activity of ground biology.

Spraying over the ground is neutralizing chemical ingredients of the soil (saturation of soil) and biologically cure the soil. Primarily it is curing gray humic acid who are the bearers of fertility in the topsoil and which, in conjunction with the fine inorganic particles in the soil establish a clay-humus complexes. These biological structures – convey fertility reduce sharply in the soil when due to external influences (drift, pesticides, etc.) the work of microorganisms is reduced.

Even experts in the field of plant breeding were appalled with the fact that yield increase was minimum 10%, but in average 20% and more. Yield is of the better quality even after single or multiple usages of Bioactivator, while reducing the use of fertilizers and protection substances.

You also aim to achieve the yield at a higher level of yield and quality. Add to your wealth of knowledge and long term experiences also knowledge of new technologies and see how effective Bioactivator is. You will be surprised in the increased yields and quality of the crop.



Regulations and Usage Instructions

The ingredients in the substance get active when mixed with water, therefore need to be used within 2 days.

The smell of the substance is featured but it will disappear within few seconds after mixing with water.

The ratio between substance and water is ideally 1:200 or more.

- 100 ha (1,000,000 m²) = 200 l of concentrate in 40,000 l of water
- 10 ha (100,000 m²) = 20 l of concentrate in 4000 l of water
- 1 ha (10,000 m²) = 2 l of concentrate in 400 l of water
- 1 a (100 m²) = 2 cl of concentrate in 4 l of water
- 1 m = 0.2 ml (4 drops) of concentrate in 4 cl of water

Shake the bottle before the usage.

Numerous users of our products have shared their results with us and we are happy to share them with you on your request. So contact us for the show cases from your field of interest.

Schedule

Please strictly follow the spraying schedule. With longer excessive time between the spraying the effects will be radically reduced.

When we miss one spraying due to the adverse weather conditions, we cannot repeat spraying after stadium 40 (the beginning of the formation of buds)!

Grounding

When using tractor mounted sprayer grounding is required. Before you refill the sprayer, ground it by using strong chain or steel cable, thus preventing the occurrence of creepage current and static electricity on the sprayer, that can precipitate substance in the spray mixture and deactivates its effect.



Preparation of the Spray Mixture

1. Fill the sprayer tank with the water.
2. Add Bioactivator (in ratio 1:200) in volumes prescribed for different plants. If no specifics are given use the volumes mentioned in the paragraph "Regulations and Usage Instructions" above.
3. If required add required 0.5l/ ha (10,000 m²) of AHL (nitrogen fertilizer).
4. Finally, stir in all remaining drift.



Mixing With Other Substances

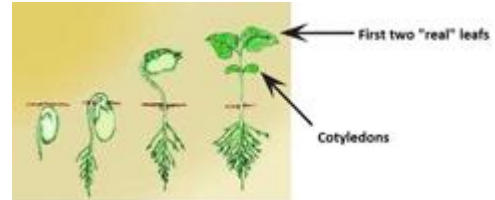
Ratio between Bioactivator and water must be always at least 1:200!

First spraying is taking place after first two "real" leaves and not already on cotyledons.

When we miss one spraying due to the adverse weather conditions, we cannot repeat spraying after stadium 40 (the beginning of the formation of buds)!

Foliar sprayed on the plants and the soil.

Shake the bottle before usage.



Sugar Beet, Fodder Beet, Rape

1. 2l/ha in stadium 4 (2 green leaves)
2. 2l/ha 14 days later



Winter Rape

1. 1,5 l/ha by stadium of 6 leaves
2. 1.5 l/ha 14 days later
3. 2l/ha together with AHL (Ammonium Nitrate + Urea) or 5 – 7 days after grained fertilization as a supplement to propel.



Asparagus

1. 2l/ha when green plant is approximately 10 cm high.
2. 2l/ha two weeks later



German Clover

1. 2l/ha in stadium of two real leaves.
2. 2l/ha 8 days later
3. 2l/ha after each mowing.





Cattle Grazing, Playgrounds, Lawns

1. 2l/ha at the start of vegetation.
2. 2l/ha after each mowing.



Flax

1. 2l/ha when plant is approximately 5 cm high.
2. 2l/ha 14 days later.



Sunflower

1. 2l/ha when plant is approximately 5 cm high.
2. 2l/ha 14 days later.



Seedlings

1. Spraying when the plant has first two leaves.
2. At transplantation is recommended suspending 1:200. Soak the roots of at least 30min in solution, plant and pour suspension. Reduces stress at the transplantation, plant recovers sooner.
3. Spraying 14 days after the transplantation.
4. Spraying once more in 14 days.





Vegetables, Spices and Medicinal Herbs

1. Spraying when the plant has first two leaves.
2. Spraying 14 days later.
3. Spraying once more in 14 days.



Flowers (Annuals, Biennials and Triennials)

1. Spraying when the plant has first two leaves.
2. Spraying 14 days later.
3. Spraying over the longer periods during the year, which will show results in growth and blooming.



Berries (Strawberries, Raspberries, Blackberries, Blueberries, Cranberries, Aronia, etc.)

1. At the beginning of the vegetation when begins to germinate (2l concentrate in 400 l water/ha).
 2. Spraying 14 days later (2l concentrate in 400 l water/ha).
 3. 4 weeks later (2l concentrate in 400 l water/ha).
- RECOMMENDATION:
- a) In the case of plant stress (drought and high temperatures, heavy raining) spray 1l of concentrate mixed with 1,000 l water.



- b) 2 days before harvesting we recommend spraying Bioactivator in "foggy manner" in ratio 1:400. This will increase fruit sugar levels, longer shelf life after harvesting, better fruit quality.



Legumes (Beans, Peas, Broad Beans, Soybeans, Chickpeas, Lentils)

1. 4 l/ha when first leaves and roots are developed (Zadok's scale stage 20 – see http://en.wikipedia.org/wiki/Zadoks_scale).
2. 4 l/ha when buds starts developing (Zadok's scale stage 30).



Tubers (Potatoes, Jerusalem Artichokes, Radishes, Turnips, Sweet Potatoes, Ginger)

1. 2 l/ha when seeds starts to grow and first two leaves are developed (Zadok's scale stage 12)
2. 2 l/ha when tillering starts (Zadok's scale stage 20).
3. 2 l/ha at stem elongation – 1st node detected (Zadok's scale stage 31).
4. 2 l/ha between beginning and end of budding (Zadok's scale stage 40 - 50).



Cereals (Wheat, Barley, Oats, Millet, Barley, Buckwheat)

1. 2 l/ha autumn spraying between root formation and three leaves developed (Zadok's scale stage 10 - 13)
2. 2 l/ha spring spraying between pseudo stem erection and 2nd node detected (Zadok's scale stage 30 - 32).



Energy Grass

1. 1.5 l/ha 2-3 leaves developed (Zadok's scale stage 12-13)
2. 1.5 l/ha 14 days later.
3. OPTIONALLY to improve yield 1.5 l/ha 8-14 days later





Trees, Fruit Trees, Shrubs

Bioactivator can be sprayed during entire year in the shorter intervals, which will assist optimal plant growth.

WE RECOMMEND:

After heavy rain or longer dry season we recommend spraying the leaves in the ratio 1:1,000.



Apple and pear

1. First treatment at the beginning of sprouting.
2. Second treatment when first leaves appear.
3. Third treatment 14 days later.
4. Last treatment 3 weeks before picking the fruits.

Dosage: Always 0.2% Bioactivator mixture, approximately 10l of water per grown tree (200 ml/10 l water).



Cherries, Sour Cherries and Plums

1. First treatment 1 week before flowering.
2. Second treatment 1 week after flowering.
3. Third treatment 6 weeks before picking the fruits.
4. Fourth treatment 3 weeks before picking the fruits.

Dosage: Always 0.2% Bioactivator mixture, approximately 2.5l of water for small trees and 5-6 l for larger trees (20 ml/1 l water).



Olive

1. First treatment at beginning of vegetation.
2. Second treatment 14 days later.
3. Third treatment 14 days later.
4. Fourth treatment 3 months later.
5. Fifth treatment 14 days later

Dosage: 2l of concentrate per 500 l water mixture for approximately 200 olive trees. 40 ml of concentrate per 10 l water mixture for approximately 4 olive trees.





Regular Bioactivator Usage

Farmers that are regularly using Bioactivator has discovered that after 3-4 years the ground became significantly more fertile compared with the previous years.

They have observed significant improvement in soil earliness, lumpy syllable, water retention capacity, seed germination and resistance to erosion by wind or water.

Consequently, the decline of plant diseases, due to decreased concentration of microbiology harmful for the plants (fungi and nematodes).

Practical experience indicates that after three years of use of Bioactivator the soil was fully protected against erosion by wind or water.

With the experience we have gained in the last 20 years worldwide, we can optimize usage of Bioactivator in the way that will largely reduce needs for plant protection products.

Expected Results

- The routes/balls of the plant will be better developed and bigger/stronger. Root hair will be increased.
- Stem should be stronger and greener.
- Leaves shall be bigger and greener, or should grow to the desired size in less time.
- You should observe gel-like consistency protecting the plant from dehydration and insect infection.
- Pesticide adhesion shall be improved. It will improve pesticide distribution and therefore decrease amount required.
- You can expect at least 15%, but more likely 20% and more increase in crop.
- The fruits are expected to be larger more equal in size, healthier, and more durable after the harvest.

Flowers

- Same effects as above with addition of flowers being generally healthier, will last longer after cutting.
- It can be applied also after cutting by adding it in the water in the vase. By doing that the blooming of the flower will last longer.

Please contact us for any further information and show cases for different crop/plants. We have extensive number of success cases with full analyze available for variety of plants.

Bioactivator has also additional appliances for:

- Composting
- Aquacultures



- Animal nutrition
- Live stock farms
- Sanitation for live stock farms
- Biogas production
- Soil detoxification
- Waste treatment

Contact us for information and show cases.