



BIOFARM

Dimitar Dimitrov

PRODUCER OF ORGANIC FERTILIZERS



VERMIKOMPOST

(BIOHUMUS of Californian redworms)

BIOHUMUS, also called worm castings or vermicompost, is a product of Californian redworms composting manure and other organic wastes.

BIOHUMUS is not just a fertilizer; it's also a soil improver, a bioactive substance and a rich source of humus.

BIOHUMUS is effective in all areas of plant breeding. It is successfully applied in commercial farming as well as in home gardening.

BIOHUMUS contains all the plants need - nutrients, hormones, beneficial microorganisms. It is easily applied, with durable effect, does not burn plants and is odorless. The crops cultivated with it grow faster, give fruits earlier and increase the yields.

BIOHUMUS works for you: vegetables, flowers, seedlings, shrubs, vines, trees, lawns and herbs.

BIOHUMUS restores the fertility of barren and polluted soil.

BIOHUMUS is permitted and recommended in licensed biological agriculture according to European Regulation (EEC) 2092/91, Annex II of 24.06.1991 and Regulation Act No. 22 of 04.07.2001, of the Ministry of Agriculture and Forests of Bulgaria.



BIOHUMUS CHARACTERISTICS

BIOHUMUS also called worm castings, is a fine granulated, dispersible, dry organic mass with deep brown color. It consists of the excrement of the Californian redworm (*Eisenia foetida*, *Lumbricus rubellis*). Worms are fed a special blend of manure and other organic wastes (shavings, paper, straw, leaves, etc.). During the digestive process, these materials are beneficially altered

both chemically and physically. The end product is "super humus" which is the best soil enricher and which ensures all that plants need.

There are three major aspects of its beneficiary effect:

- 1. Nutritional effect** of macroelements (N, P, K) and microelements.
- 2. Meliorative effect** of microorganisms over the soil.
- 3. Bio-regulation effect** of humified organic matter.



BIOHUMUS possesses in rich proportion all 16 elements that plants need. The concentrations of nitrogen, phosphorus, potassium, magnesium, calcium and all other beneficial elements are many times higher than in the richest soil. These nutrients are encased in a water-soluble membrane, they are released gradually in accordance with the plants' needs and are easily consumed by them (**BIOHUMUS** provides plant food during 3 to 5 years).

BIOHUMUS is the best soil enricher, because it contains high concentrations of beneficial bacteria and other microorganisms, many biologically active stimulants for the plants, vitamins, amino acids and antibiotics, added to it during the worm's digestive process. They are 100 times more than in manure, chemical fertilizers have none.

The huminic acids make **BIOHUMUS** a specially valuable product, they are the basic reserve of nutrients in the soil and improve the water and air regime.

The miniature oval shaped particles of **BIOHUMUS** improve the soil aeration, because they do not agglutinate. By improving the soil structure plants are able to grow rapidly and healthy.

BIOHUMUS retains the necessary moisture and allows excellent drainage of the soil. The excess water is filtered thus the roots do not rot. This way less watering is necessary.

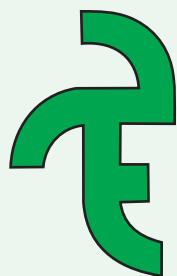
BIOHUMUS creates in soil conditions that impede the development of diseases. Plants easily resist frost and dry weather. **BIOHUMUS** does not contain any weed seeds or substances that prevent the plant growth.

PHYSICAL/CHEMICAL AND BIOLOGICAL ANALYSIS

Acidity (pH)	6,8-7,4
Humidity	40-50%
Organic content	40-50%
Humic acids	up to 14%
Fulvic acids	up to 7%
Soil-forming micro-organisms (per g)	up to 2×10^{12}
Nitrogen (N)	1,5-2,5%
Phosphorus (P)	2,0-2,6%
Potassium (K)	1,5-2,5%
Calcium (Ca)	4,0-6,0%
Magnesium (Mg)	1,0-1,6%
Iron (Fe)	0,5-1,0%

Does not contain heavy metals or harmful microorganisms more than admissible concentrations.

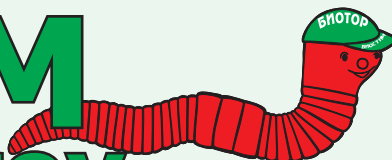
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EFFECTS OF USING BIOHUMUS

- Over 4 times increase in germination energy and over 40% increase in germination of seeds reduction of costs for seeds;
 - 10 to 15 days earlier development of seedlings reduction of costs and earlier plantation of better seedlings;
 - 10 to 14 days earlier production of the vegetables earlier sales to the market at high prices and lower energy costs in greenhouses; "30 to 50% increase in crop yields higher incomes;
 - Environmentally friendly production with great taste and nutrition quality, with high contents of vitamins high market prices.
- BIOHUMUS** is permitted and recommended in licensed biological agriculture (Regulation Act No 22 of July 4th 2001, of the Ministry of agriculture and forests of Bulgaria). The products grown with **BIOHUMUS** contain minimal quantities of nitrates:
- **BIOHUMUS** resolves all the problems of using manure: weeds, smell, burning plants, large volumes, etc.;
 - "Reduces need of irrigation;
 - Leaf application of **BIOHUMUS** water solution reduces costs for pesticides.



APPLICATIONS OF BIOHUMUS

BIOHUMUS is used:

- as basic fertilizer during fall and spring,
- as a substrate for production of seeds and seedlings,
- for fertilization before and during planting,
- for feeding the plants during vegetation,
- for preparation of different substrates for greenhouses, pots, etc.

VEGETABLES	DOSE
TOMATO	1000-1200 kg/ha
CUCUMBER	1000-1200 kg/ha
PEPPER	1000-1100 kg/ha
ONIONS	500-600 kg/ha
OTHER VEGETABLES	800-1300 kg/ha

FRUIT TREES	DOSE
FRUIT TREES	1-2kg/tree
VINES	0.5-1kg/vine
RASPBERRIES	0.5-1kg/shrub
ROSES	0.5-1kg/rose

OTHERS	DOSE
STRAWBERRIES	1100-1300 kg/ha
FLOWERS	1500-2000 kg/ha
POTATO	900-1100 kg/ha
LAWNS AND TURF	1500-2000 kg/ha

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