

BIOACTIVE

Liquid Bio-Organic Fertilizer

“Bioactive” is a 100% plant-origin liquid bio-organic fertilizer representing a natural complex of biologically active substances designed for all types of agricultural and ornamental crops.

Product Form

Solution

Description

Transparent yellowish liquid with a characteristic strong odor.

Composition

“Bioactive” contains:

5% concentrate of plant stem cells (*Glycine hispida*), comprising a multi-component heterosystem of natural organic compounds, including pyridine, pyrimidine, imidazole, indole, indole-pyridine compounds, aromatic and phenolic compounds, amino acids, amides, and other heterocyclic compounds.

Does not contain heavy metals, weed seeds, or any pathogens.

Properties

- **Activates plant stem cells**
- **Accelerates plant growth and development**
- **Enhances penetration and absorption of nutrients**
- **Stimulates flowering and fruiting**
- **Increases yield and crop quality**
- **Inhibits transfer of heavy metals, radionuclides, nitrates, and pesticide residues from soil into plants**
- **Accelerates rooting of seedlings and cuttings**

- Improves resistance to pests, herbicides, and adverse climatic conditions (frost, drought, etc.)
 - Rapidly restores hail-damaged cells and enhances wound healing and plant immunity
 - Provides long-lasting protective effect
 - Extends shelf life of harvested products
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Purpose and Application Recommendations

When used in tank mixtures with pesticides and agrochemicals, Bioactive:

- Enhances penetration of active substances and nutrients
 - Activates biological protection processes of fertilizers and plant protection products by 20–25%
 - Increases productivity by 20–30%
 - Enhances long-lasting efficiency of pesticides and fertilizers throughout the growing season
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APPLICATION METHODS, EFFECTIVENESS & DOSAGE

Agricultural Crops

Vegetable Crops

(Tomato, cucumber, zucchini, pepper, carrot, eggplant, onion, dill, lettuce, cabbage, etc.)

Bioactive treatment increases early and total yield by 10–20%, seed germination by 3–15%, stimulates vegetative growth and flowering, enhances resistance to diseases and drought, and increases vitamin content (beta-carotene, ascorbic acid) by 10–25%. Reduces nitrate and nitrosamine content by 5–15%.

Can be used together with insecticides, herbicides, nematicides, and fertilizers.

Application:

- **Seed treatment: 40 ml/kg**
 - **Foliar feeding at 2–3 leaf stage; repeat after 15 days**
 - **Application rate: 1 L/ha**
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Potato

Increases tuber germination by 3–5%, accelerates emergence by several days to one week, improves yield and quality up to 30%.

Application:

- **Pre-planting tuber treatment: 20 ml/kg**
 - **Foliar feeding three times during vegetation (tuber formation, budding, end of flowering)**
 - **Application rate: 1 L/ha**
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Cereal Crops

(Spring and winter wheat, rye, barley)

Increases yield by 0.3–0.5 t/ha, seed germination by 2–15%, energy by 5–10%, tillering by 6–55%. Improves root development and drought resistance (10–30%).

Improves grain quality parameters (1000 grain weight +0.5–4.1 g, gluten +0.5–5%).

Application:

- **Seed treatment: 20 ml/kg**
 - **Foliar feeding twice (tillering and heading-flowering stages)**
 - **Application rate: 1 L/ha**
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Sunflower

Increases yield by 10–25%, accelerates ripening by 6–7 days, increases head diameter and oil yield (up to 22%).

Application:

- **Seed treatment: 5 ml/kg**
 - **Foliar feeding twice (4–7 leaf stage and flowering)**
 - **Rate: 1 L/ha**
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Corn

Increases green mass yield by 1.4–5.0 t/ha and grain yield by approx. 0.35 t/ha.

Application:

- **Seed treatment: 2 ml/kg**
 - **Foliar feeding twice (early vegetation stages)**
 - **Rate: 1 L/ha**
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Apple

Increases yield by approx. 1 t/ha. Enhances photosynthesis and fruit development.

Application:

- **2 L/ha, three times (3–4 leaf stage, before flowering, after flowering)**
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Grapevine

Stimulates shoot and cluster growth. Increases vine growth by 30–55%, cluster weight by 21–24%.

Application:

- **1 L/ha, three times (before flowering, after flowering, fruit formation)**

Grafting material soaking: 20–40 ml per 10 L water (24 hours)

Cutting rooting: 20–40 ml per 1 L water

Ornamental Plants

Lawn Grasses

Improves tillering and height growth (6–56%), increases green biomass and chlorophyll content.

Application:

- **Seed treatment: 20 ml/kg**
 - **Foliar feeding: 1 L/ha**
 - **2–5 treatments per season**
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Flower Crops

Accelerates flowering by 3–15 days, extends flowering by 4–35 days, improves decorative qualities and increases premium flower yield.

Application:

- **1 L/ha, three times at beginning of flowering (2-week intervals)**
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Ornamental Trees & Shrubs

Accelerates shoot development (+20%), increases chlorophyll (+6–12%), improves stress resistance.

Application:

- **2 L/ha, three times at 15-day intervals from bud swelling**
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Rooting & Cutting

20 ml Bioactive per 1 L water

Packaging

Available in 100 ml and 1 L plastic bottles.

Other packaging sizes permitted according to Georgian Ministry of Health regulations.

Storage Conditions

Store in a dry, dark place at +10°C to +30°C.

Shelf life: 24 months from production date.

Manufacturer

Biotecsi LLC

Tbilisi, Georgia

8 Iumashevi Street