

**MICROBIOLOGICAL
PREPARATIONS
LLC «AGRICULTURAL
BIOTECHNOLOGIES»
FOR AGRICULTURE**



АГРАРНІ

БІОТЕХНОЛОГІЇ

About company

LLC "Agricultural Biotechnologies" was founded in 2013 as a company that specializes in the production of biological products for plant protection and microbiological fertilizers.

The products are manufactured under the license of the country's leading research centers: the Institute of Microbiology and Virology in the name of D.K. Zabolotnij of National Academy of Agrarian Sciences of Ukraine, Scientific and Engineering Institute "Biotechnic" of the National Academy of Sciences of Ukraine, the State Scientific Control Institute of Biotechnology and strains of microorganisms.

Objectives of LLC "Agricultural Biotechnologies"

Production of high quality biopreparations for the preservation of the natural quality of agricultural plants and increasing of their crop capacity



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Assortment and characteristics of preparations of LLC "Agricultural Biotechnologies"

- **Avercom**

acaricide, nematocide, fungicide

- **Azogran**

bacterial fertilizer

- **Gaupsin**

insecto-fungicide

- **Deratez**

deratisation remedy

- **Trihodermin BT**

destructor, fungicide

- **Ecovital**

legume inoculant



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AVERCOM

- *Effect from application:*

AVERCOM effective against the Colorado potato beetle, aphids, thrips, cabbage white butterfly, scoops, seedworms, mites and nematodes. Has a growth stimulating effect. Protects plants against bacterial and fungal diseases.

- *Application technology :*

vegetation cultivation and seed treatment before sowing.

- *The rate of application for vegetation:*

2 l/hectare. The application rate of the working solution 200-300 l/hectare. 1-2 seed treatment during vegetation.

- *Seed treatment:*

5 ml per 10 l of water. Expense of the working solution is not more than 1% of seed weight.



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AZOGRAN

Combined bacterial preparation of complex action.

Liquid or granular product form.

Packing in plastic bags, bottles, cans.

Yield increasing of grain, vegetable and industrial crops by 15-40%.

Bacillus subtilis - antagonist of a wide spectrum of pathogens of root rot, fungal and bacterial diseases of plants. Has the ability of phosphate mobilization (70% of the phosphorus of soil is composed of poorly soluble organophosphates). Increases the coefficient of assimilation of mineral fertilizers.

Azotobacter vinelandii - a nitrogen-fixing properties (converts nitrogen from the air into ammonium compounds that are available for plants).

Azogran does not cause environmental pollution.



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APPLICATION TECHNOLOGY OF PREPARATION AZOGRAN

Presowing treatment of seeds.

Application rate is 1 liter/ton of seeds.

Expenses of working solution is not more than 1% of seeds weight.

Is compatible with chemical protectants Vitavaks, Fundazol, Raxil and others from the use of which you may refuse.

EFFECTS OF AZOGRAN APPLICATION

**fixation of atmospheric nitrogen,
supply of bound nitrogen to plants,
improve phosphorus nutrition of plants,
maintenance of improvement field germination and seed vigor,
the formation of an extensive root system,
intensification of use of nutrients,
increasing plant resistance to diseases,
increased content of essential amino acids in proteins,
improve the phytosanitary condition of the soil.**

GAUPSIN

- *Effect from application:*

GAUPSIN has an **энтомоцидными**, antibacterial, antifungal and antiviral properties. Effectively reduces the affection of fruit by codling moth (92 - 93%) and by fungal diseases (94 - 96%). Used for pest control of fungal diseases of grapes, root rots of other agricultural crops (wheat, barley, peas), for the protection of gardens and woods from pests, for the treatment of vegetables during storage. Has a positive effect on the plant itself. The preparation can be used in different phases of development of the plants, does not affect the useful forms of biocenosis and is not toxic to plants, humans and warm-blooded animals.

- *Application technology :*

vegetation cultivation and seed treatment before sowing.

- *By vegetation the preparation is apply within the sprayer at the rate of 200 - 1000 l / ha. Depending on the culture.*



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ГАУПСИН: Норма применения

Culture plants	Processing time, the phases of plant development	The rate of application	Appointment	
			diseases	pests
Crops and technical cultures	Seed treatment	2 L/т	Root rot, musty seeds askohitoz, blight, powdery mildew, and other.	Cereals bug, wheat thrips, moth, sunflower barbel.
	Adding to the growing season	5 L/ha		
Gardens	At all stages, from interval 14 days	10 L/ha	Scab, powdery mildew, fruit rot, other	Moth, caterpillars, aphids, and others.
Vineyards	At all stages, from interval 14 days	10 L/ha	Scab, powdery mildew, fruit rot, other	Goose, moth, and others.
Berries	At all stages, from interval 14 days	5 L/ha	Powdery mildew, rust columnar, double leaf, gray rot, chlorosis, mosaic raspberries.	Aphids, mites, berry sawyer, listokrutka and others.
Vegetable	Soak the seeds for 2-3 hours	2 L/ha	Powdery mildew, anthracnose, Fusarium wilt, bacterial blight, brown spot, bacterial canker, Chornaja leg macrosporiosis others.	Sprout fly, melon aphid, mite onion, onion mole morkvnaya fly, mosquito and other cucumber.
	Adding to the growing season	5 L/ha		



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DERATEZ

- *Effect from application:*

DERATEZ provides reliable protection of crops, warehouse premises against rats, mice, voles and other small rodents. Provides 100% protection from rodents. Does not cause addiction.

- *Application technology :*

The remedy is laid out in places of mass breeding and habitat of rodents in a special package for its eating in an amount that is sufficient for eating by rodents during the day.

The preparation is added by checking the completeness of its eating in places where it was laid out.

- *Application rate:*

2 kg / ha.



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TRIHODERMIN BT

- *Application effect:*

TRIHODERMIN BT decompose the crop residues that is enclosing the cellulose. Parasites on fungi that cause the development of white, gray, dry and root rots, gelminto sporiosis, late blight and other diseases. Improves the phytosanitary condition of soils.

- *Application technology:*

Crop residues treatment. Plants treatment by vegetation. Presowing treatment of seeds.

- *Crop residues treatment :*

Application rate is 2 L/ha. The application rate of the working solution is 200-300 l / ha. 1 treatment.

- *Plants treatment by vegetation :*

Application rate by growing season for spraying of grain, vegetable, technical cultures is 2 l/ha. The application rate of the working solution is 200-300 l/ha. 1-2 treatments during the growing season.

- *Application rate for spraying of orchards, vineyards and berry gardens is 5 to 10 l / ha. The application rate of the working solution is 500-1000 l / ha. 5-10 treatments per season.*

- *Seeds treatment– 2 l per 1 ton of seeds.*

Expenses of working solution is not more than 1% from weight of seeds.



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ECOVITAL

- *Application effect:*

ECOVITAL improves crop by 10-45% by improving the nitrogen and phosphorus nutrition of soybeans, has aftereffect, which is reflected in the improvement of structure and ecological condition of the soil due to the enrichment of nitrogen, phosphorus and other nutrients, the development of beneficial soil microflora. The preparation helps to stabilize the agroecosystems and improve soil fertility.

- *Application technology:*

The preparation is used for presowing treatment of seeds.

- *Consumption rate:*

100 ml / ha rate of seeds.

- *Consumption of the working solution: not more than 1 liter per 100 kg of seed (maximum 1% from seeds weight).*



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BENEFITS APPLICATIONS BIO DRUGS

**a substantial increase in the harvest;
improving drought tolerance of crops;
increase winter hardiness;
improving the efficiency of fertilizer application;
positive effect on the biological activity of the soil;
improvement of agrochemical soil characteristics;
improvement of product quality;
reduction in the cost of plant protection chemicals;
positive impact on the development of plants in the following
crop rotation;
making preparations do not require additional costs (can be
combined with the etchant), and in making on vegetation
(together with the possible introduction of fungicides, pesticides).**



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Will make the nature more effective!



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CONTACTS

**Limited Liability Company
"Agricultural BIOTEHNOLOGII"**

Ukraine, 61140, Kharkov, ul. Chuguevska, 56

Tel. / Fax: + 38 (057) 706-17-56

Tel. 050 3837403

E-mail: biopreparat@mail.ru

agro.biotechnology@hotmail.com

www.agro-biotechnology.com.ua



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**THANK YOU
FOR YOUR ATTENTION!**



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