

**Application instruction**  
(private sector)  
**Azotofit®-r**

**Bioactivator for vegetables and fruit, for growth promotion and nutrition**

(group 2)

**DESCRIPTION:** From cream to brown colored liquid with slight specific smell.

**COMPOSITION:** The biopreparation active agents are viable cells of *Azotobacter chroococcum* bacteria totalling  $(1-9) \times 10^9$  CFU/cm<sup>3</sup>, micro- and microelements, biologically active bacterial metabolites: enzymes, amino acids, vitamins, phytohormones, fungicide substances.

**SPECIFIC EFFECT.** Bioactivator has growth promoting and fungicide properties due to ability to fix molecular nitrogen from atmosphere and to convert it into the plants assimilable form; it synthesizes growth promoting substances (nicotinic acid, pantothenic acid, pyridoxine, biotin, heteroauxin, etc.) and emits fungicide substances which suppress phytopathogenic microflora, produces metabolites capable of dissolving low-soluble soil phosphates.

**INTENDED USE:**

- root system and overall development promotion;
- ripening time acceleration, free nitrogen fixation;
- reinforces plants immunity and increases resistance to diseases;
- increases crops yield.

**AZOTOFIT®-R APPLICATION**

**Consumption rates and application methods**

Crop	Treatment			
	Seeds	Seedlings roots, 100 units	Root nutrition	Foliar nutrition
Vegetables (cucumbers, tomatoes, peppers, cabbage, etc.) Beets, corn; Legumes, sunflower	5-10 ml / 0.5 l of water	10 ml / 3-5 l of water	5-10 ml / 100 l of water	5-10 ml / 10 l of water  3-4 times every 7-10 days
Potato (tubers), bulbs (50-100kg)	10-20 ml / 10 l of water	-		
Horticultural crops Fruit trees seedlings	-	10 ml / 10 l of water		

**Note:**

- shake up the preparation before use
- the solution for seedlings treatment and plants nutrition is used on the day of preparation
- seeds treatment should be carried out in the shadow avoiding direct sunlight, nutrition is carried out in the evening or when the weather is cloudy
- \*the number of treatments for sprinkling is defined by the plants growth, condition and density.

**APPLICATION ORDER**

**Pre-planting seeds treatment**

Uniform concentration solution (see Table) is prepared for various crops seeds treatment. It is recommended to add (when possible) to the solution 2 table spoons of sugar to energize *Azotobacter chroococcum* bacteria. The sorted out seeds are soaked in the treatment solution on the day of sowing for 1.5-2 hours, soaked up and sowed immediately or dried in the shadowed place to the bulky free-flowing state. The remaining solution can be used for watering house and other plants.

### ***Onion, garlic, potato tubers treatment***

The treatment is carried out in the shadowed place via sprinkling onion, garlic, potato tubers or via soaking in the biopreparation solution for several hours (see Table). The solution can be used several times.

### ***Seedlings treatment prior to planting***

The plants' roots are dipped into the solution (see Table), the pot seedlings are sprayed.

### ***Root nutrition***

The nutrition is carried via root watering when planting the stock into the soil and then every 7-10 days using 1 litre of the preparation solution (see Table) for 1 seedling or 1 m<sup>2</sup> of vegetable or horticultural plantation. Plants are watered, soil is mulched after the treatment.

### ***Foliar nutrition***

The plants are sprayed with the biopreparation solution (see table) starting from sprouting and then during vegetation period 3-4 times every 7-10 days.

Overdose results no plant development and fruiting disturbance.

Azotofit®-r is compatible with other biopreparations and chemical protecting agents, micro- and microelements, adhesive agents, growth stimulators.

To enhance performance and decrease chemical agents toxicity, add Liposam® adhesive agent to the solution; to protect plants against diseases add Fitotsyd®-r; to protect plants against pests add insecticides.

### ***APPLICATION EFFECT:***

- blossoming and ripening acceleration;
- plants mineral nutrition enhancement;
- palatability improvement;
- products commercial qualities enhancement;
- nitrates content decrease;
- seeds mordant treatment costs cut;
- "green"/contaminants-free products output;

### ***STORAGE:***

Azotofit-r is stored in hermetical package in the light-protected place at 4 °C to 10 °C temperature.

Guaranteed storage life: 6 months from the production date.

***State registration certificate: series A # 02961***

### ***PRODUCER:***

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