



## APPLICATION INSTRUCTION BIOINOCULANT-BTU®-R

### Description:

Bioinoculant-BTU®-r is from creamy to brown colored liquid with slight specific smell.

### Intended use:

for pre-planting treatment of soya, peas and other leguminous seeds.

### Composition:

- viable cells of tubercular bacteria which are symbiotically related to leguminous plants;
- bioactive products of tubercular bacteria vital activity (vitamins, phytohormones, heteroauxins, gibberellins);
- nutrient medium components (macro- and microelements, etc.);

### Specific effect:

- free nitrogen fixation (under conditions of symbiosis with legumes) and conversion into the form assimilable for plants;
- synthesis of growth-promoting substances (vitamins, heteroauxin, gibberellins and so on).

### Application effect:

Inoculation:

- Tubercles formation processes acceleration;
- Assimilable nitrogen supply;
- Protection against phytopathogenic microflora;
- Plants growth-promoting substances supply (vitamins, phytohormones);
- Protein content increase;
- leguminous crops yields increase;
- Soil agrochemical and physical properties enhancement.

### Consumption rates

Biopreparation consumption rate for seeds treatment: 1.0 liters – 3.0 liters per tonne of seeds. Biopreparation working solution volume for treating 1 tonne of seeds depends on the seeds size and treatment method: 6.0 liters – 12.0 liters.

### Method of application:

Seeds treatment is carried out via the biopreparation working solution sprinkling on the day of sowing.

### *Shake up the preparation before use!*

Bioinoculant-BTU®-r working solution is prepared on the day of treatment and if needed stored in the cool place no longer than 4 hours.

The treated seeds are sowed immediately or dried in shadow to bulky free-flowing state.

Any standard equipment can be applied for seeds treatment.

Minimal and maximal biopreparation application temperature accounts respectively for 5 °C and 30 °C.

### *Liposam® adhesive bio-agent can be used to enhance Bioinoculant-BTU®-r efficiency.*

In this case the tank mixture is prepared in the following order:

- first prepare Liposam® water solution in line with recommended consumption rate of 0.15 liters – 3.0 liters per tonne of seeds. Mix the water solution continuously gradually adding Liposam® to water (until Liposam® complete dissolving).
- then add Bioinoculant-BTU®-r to the ready Liposam® solution;

- stir up Bioinoculant-BTU®-r and Liposam® solution mixture until getting an homogeneous suspension.  
The tank mixture end-volume for treating 1 tonne of seeds ranges from 6.0 liters to 12.0 liters depending on the legumes seeds size and treatment method.

*Note: Liposam is not applied when sowing seeds through the seeder bunker.*

#### **Bioinoculant-BTU®-r use together with chemical seed dressers**

Chemical dressers can be applied for seeds treatment in 5-7 days before inoculations! In this case Bioinoculant-BTU®-r consumption rate should be increased by 30-50%!

*Bioinoculant-BTU®-r is non-compatible with potent chemical dressers in the tank mixture!*

*Bioinoculant-BTU®-r can be applied with other growth-stimulating and antimicrobial biopreparations, adhesive bio-agents and microelements.*

*Seeds should be treated in the shadow avoiding direct sunlight.*

#### **Precautions:**

Wash off the preparation if contacting skin or eyes.

#### **Storage conditions:**

Bioinoculant-BTU®-r is stored in hermetically sealed package in light-protected place separately from chemical dressers.

Guaranteed storage life from the production date:

6 months at 4 °C to 10 °C temperature or 3 months at 10 °C to 15 °C temperature.

**Strictly follow the application and storage recommendations to ensure maximal effect from Bioinoculant-BTU®-r use**

*State registration certificate: series A # 03131*

#### **Producer:**

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