

**APPLICATION INSTRUCTION**  
**(industrial sector)**  
**BITOXIBACILIN-BTU®-R**

**bioinsecticide for plants protection against pests and mites**

**DESCRIPTION:** from cream to brown coloured liquid with specific smell.

**SPECIFIC EFFECT:** viable cells of *Bacillus thuringiensis* bacteria, endospores and their biologically active metabolites: protein crystal (endotoxin) and thermally stable exotoxin.

**INTENDED USE:**

**for pests extermination:** potato beetle and its larvae, aphids, mites, lepidopterous pests caterpillars (cabbage butterfly; cabbage, apple and fruit mole; cabbage owl-moth, fall webworm, pickleworm, pyralid moths leaf rollers, brown-tail moth, sod webworm, sawfly) **on cereal, leguminous, horticultural crops as well as on forest and park plantations.**

**SPECIFIC ACTION:** biopreparation of intestinal action.

Consumed by insects, beetles, mites with the particles of eaten leaves, the preparation causes intestine paralysis, which kills the pests.

**APPLICATION:**

The biopreparation is used in a form of working solution prepared in line with the recommendations (see Table) and used over the span of 24 hours.

**Table – Bitoxibacilin-BTU®-r consumption rates for industrial sector**

Crop	Pest species	Consumption rate		Time and number of treatments
		Preparation volume, l/ha	Working solution volume, l/ha	
<b>Vegetable:</b> Cucumbers (under glass cultivation) Cabbage, potato, tomato, aubergine, cucumber and other vegetables	Mites	10 - 20	1000	During vegetation period 1-2 times within 7-14 days interval.  1-2 treatments against each generation of pests within 5-10 days interval  Total number of treatments during vegetation period: 2 – 4 times
	Melon aphid	7 - 8	1000	
	Cabbage butterfly, moth, owl-moth, potato beetle, red spider	2 - 10	400 - 500	
<b>Cereal: corn Legumes:</b> Lucerne, soya, pea	Corn-worm, sod webworm, owl-moth	2 - 5	200 - 300	
<b>Horticultural:</b> apple, plum, cherry, apricot, black cherry, pear, vine, gooseberry, currant, raspberry, strawberry, etc.	Apple and fruit moth, leaf rollers, silk worm, fall webworm, brown-tail moth, sawfly, aphid, red spider	3 - 7	400 - 700	
<b>Coniferous and foliaceous forest and park trees</b>	Silk worm, pine noctuid	3 - 7	500 - 1000	

***Shake the preparation before use!***

Mix the required volume of Bitoxibacilin-BTU®-r thoroughly in water of 15 °C to 20 °C temperature.

The treatment should be preferably carried out avoiding direct sun-light better in the evening and morning (at the air temperature from 15 °C to 30 °C) in windless dry weather.

Maximal Bitoxibacilin-BTU®-r protective effect can be achieved when treating plants at the initial stages of the pests development (1-3 phases: larvae of different age, caterpillar, nymph)

**To enhance efficiency**, biopreparation Liposam® can be added to the working solution. Liposam® water solution should be prepared separately continuously and gradually adding the preparation to water (until Liposam® complete dissolving).

**Preparing the spaying tank mixture** complying with the following order: first add chemical preparations (pesticides, etc.), microelements, Liposam® solution and after thorough stir-up add Bitoxibacilin-BTU®-r. In this case chemical treaters and microelements consumption rates are cut respectively by 30-50% and 30% due to Liposam® specific effect ensuring preparations fixation on plants.

***APPLICATION EFFECT:***

- wide action spectrum, selective impact on pests;
- long-lasting effect period;
- the preparation does not accumulate in soil and plants;
- compatible with biological and chemical growth promoters, pesticides, herbicides (by treatment mixture compounding);
- does not build up pests' tolerance;
- safe for people, animals, bees, soils, water reservoirs and environment.

***PRECAUTIONS:***

Wash off the biopreparation if contacting skin or eyes.

***STORAGE CONDITIONS:***

Bitoxibacilin-BTU®-r is stored in hermetically sealed package in the light-protected place.

Guaranteed storage life from the production date:

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

***State registration certificate: series A # 03134***

***PRODUCER:***

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