

**APPLICATION INSTRUCTION**  
**(industrial sector)**

**LEPIDOTSYD-BTU®-R**

**bioinsecticide for plants protection against lepidopterous larvae pests**

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

**SPECIFIC ACTION:** viable cells of *Bacillus thuringiensis* var. *kurstaki* bacteria, endospores and their biologically active metabolites: protein crystal (endotoxin).

**INTENDED USE:** for extermination of lepidopterous pests caterpillars (cabbage butterfly; cabbage, apple and fruit mole; cabbage owl-moth, fall webworm, pyralid moths, leaf rollers, brown-tail moth, sod webworm, sawfly, etc.) on cereal, leguminous, vegetable, horticultural crops as well as on forest and park plantations.

**SPECIFIC EFFECT:** *Bacillus thuringiensis* bacteria protein crystals and spores affect the insects immediately after treatment and over the span of 4 hours after being consumed by insects causing intestines paralysis, septic infection and eventually pests' death. The bacteria produce protein crystals constantly that is what exactly ensures prolonged effect of the preparation.

**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 – Lepidotsyd-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	
Cabbage, tomato, flowers	Cabbage butterfly, moth, owl-moth, pyralid moths	2 - 4	200 - 400	1-2 treatments against each generation of pests within 5-10 days interval
Beets, sunflower, soya, pea	Owl and pyralid moths, sod webworm	2 - 4	200 - 300	
Vine	Vine leaf-roller	2 - 4	200 - 300	Total number of treatments during vegetation period: 2 – 4 times
Apple, plum, apricot, black cherry, pear, cherry, etc.	Apple and fruit moth, leaf rollers, fall webworm, brown-tail moth, sawfly, aphid, red spider	4 - 7	500 - 700	
Currant, raspberry, gooseberry, strawberry, chokeberry	Leaf-roller, pyralid moths, sawfly	2 - 4	200 - 300	
Coniferous and foliaceous forest and park trees	Silk worm, pine noctuid	5 - 7	500 - 1000	

**Shake the preparation before use!**

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

Use at the air temperature from 15°C to 30°C in the dry windless weather at any phase of plants development: blossoming, insect pollination, etc. The last treatment is to be carried out in 5 days prior to cropping.

Maximal effect can be achieved when treating plants at the early stages of caterpillars development. The re-treatment has to be carried out after 5-10 days if pests egg production and revival lasts for certain time or if there was abundant precipitation immediately after the treatment.

***To enhance efficiency*** add biological adhesive agent Liposam®: 0.5-1.0 liter of Liposam® per 1000 liters of Lepidotsyd-BTU®-r 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*** comply with the following order: first add chemical preparations (pesticides, etc.), microelements, Liposam® solution and after thorough stir-up add Lepidotsyd-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;
- does not accumulate in soil and plants, which allows treatment in 5 days before harvesting;
- compatible with biological and chemical growth promoters, pesticides, herbicides (by treatment mixture compounding);
- does not build up pests' tolerance;
- does not kill useful entomophages;
- safe for people, animals, bees, soils, water reservoirs and environment.

***PRECAUTIONS:***

Do not use houseware to prepare working solution.

The treatment should be carried out in children and animals absence using protective glasses and gloves.

Wash off the biopreparation with soap and water if contacting skin or eyes.

***STORAGE CONDITIONS:***

Lepidotsyd-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 # 03135***

***PRODUCER:***

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