

# LOPOVIR®

Against Soybean Looper (*Chrysodeixis includens*)



Loopovir offers **highly effective** biological control of the soybean looper larvae. It is an excellent tool which prevents damage and controls soybean looper populations. Loopovir is also an important **resistance management tool** that can be included in any integrated pest management program (IPM). Loopovir is a valuable weapon for growers of both conventional and organic soybean crops.

## Pest Distribution and Life Cycle

Soybean Looper are an important agricultural pest with an exceptionally broad geographical range. Soybean looper can be found throughout the Americas, but are especially prevalent in the Southern USA and South America. Annual migration occurs to the northern States and into Canada. In warmer climates, soybean loopers can have up to 11 generations per year, and can complete its lifecycle with 30-35 days.

- Female moths can lay 300-600 eggs, usually over a 10-12 day period
- Larvae hatch 3 to 6 days after being laid
- The larvae will feed for 2-4 weeks, consuming about three times its own body weight per day

Early instar larvae begin feeding on the underside of the leaf, producing small holes that do not break through the upper surface of the leaf. Smaller larvae are located in the lower canopy, therefore monitoring and choice of spray equipment are important. Larger larvae cause more conspicuous damage. Plants can be severely defoliated and stunted, reducing plant vigor and yield.

## Advantages of Loopovir

- ✓ Suspension Concentrate (SU)
- ✓ Excellent Resistance Management Tool
- ✓ Zero Residues
- ✓ Minimum Pre-Harvest Interval
- ✓ Non-Toxic and Harmless to Beneficials
- ✓ Good Rainfastness

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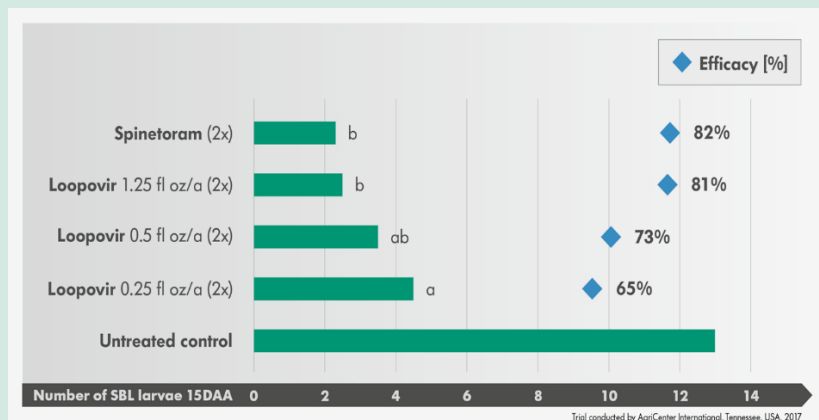
## Mode of Action

Larvae need to ingest the virus particles sprayed onto the plant surface in order to become infected. Particles enter the larval midgut, where their DNA is incorporated and replicated in the host cells. Larval organs are infected within a few days; the larva stops feeding, eventually dies and releases new virus particles into the environment, ready to infect other soybean loopers.

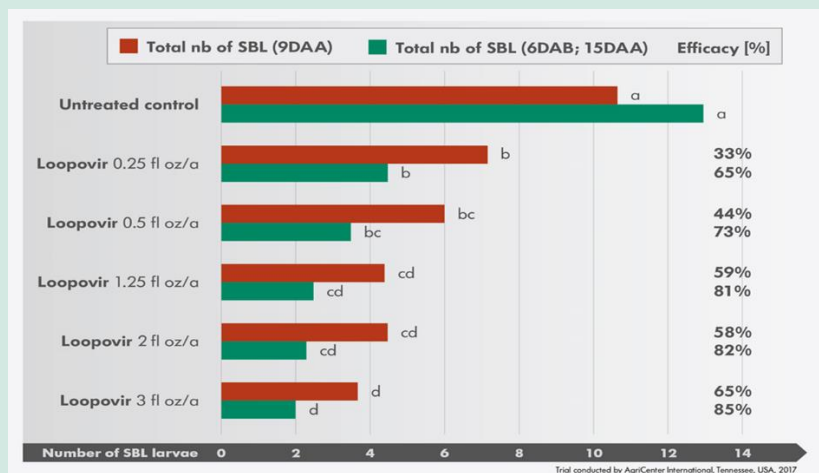
## General Instructions

For best crop protection, adult flight is monitored and Loopovir is applied as soon as first catches of moths are recorded. Since young larvae are most vulnerable, they should be infected at the earliest possible stage of their development. Older instars cause more feeding damage and take a longer time to die. Ensure product is applied where the larvae are feeding (lower canopy; underside of leaves).

## Field Trial Results



\*2 applications (90mls/ha high rate); Tennessee, USA, 2017



\*AgriCenter International, Tennessee, USA, 2017

## PRODUCT FACTS

### Against

Soybean looper (*Chrysodeixis includens*)

### Active Ingredient

*Chrysodeixis includens* nucleopolyhedrovirus (ChinNPV)

### Formulation Type

Suspension Concentrate

### Concentration

5x10<sup>8</sup> OBs/ml

### Standard Dosage

50-200mls/ha every 8-14 days

### Crops

Soybeans

### Compatibility

Compatible with most insecticides, fungicides and fertilizers. A pH level between 5 and 8.5 in the tank mix must be respected.

### Storage

Storage stability: >2 years at -18°C, 2 years at 5°C, 1 month at 25°C. Avoid temperatures above 37°C.