

Heligen

Novel Mode of Action Insecticide for Corn Earworm (CEW)



NO RESIDUE, EFFECTIVE AND
ECONOMICAL CEW MANAGEMENT

NEW IPM TOOL FOR INDUSTRIAL HEMP



20 years of
Lepidopteran
pest management



World's largest
Baculovirus research
center and
manufacturing facility



Strong commitment
to provide field
technical assistance



Wide network of
research partners

AgBiTech

Science. Nature. Viable Agriculture.

NOVEL AND HIGHLY SELECTIVE MODE OF ACTION No Residue Insecticide for the Control of CEW



TARGET PESTS: *Helicoverpa zea* - AKA Corn earworm (CEW), Soybean podworm (SPW), and Cotton bollworm (CBW).

ACTIVE INGREDIENT (A.I.): *Helicoverpa armigera* Nucleopolyhedrovirus (HearNPV)

FORMULATION: Suspension concentrate (SC) **RATE:** 2.4 fl oz/acre

NOVEL MODE OF ACTION: **GROUP 31 INSECTICIDE** Heligen® will control CEW larvae resistant to chemical insecticides. A unique set of baculovirus proteins (PIF complex) promotes generalized cell infection and ultimately, death. Infected larvae release billions of viral particles after death, leading to continued secondary infection cycles and long persistence in treated fields.

HOW TO USE HELIGEN®:

- ▶ Thorough crop coverage is essential, as the A.I. in Heligen® must be ingested by larvae to be effective.
- ▶ Heligen® is most effective when applied to small larvae at very early infestation levels.

Instar	Age (Days)	Size Category	Length (inches)	Actual Size	Heligen® timing
1st	0-2	Very Small	1/8"		✓✓
2nd	2-4	Small	1/4"		✓✓
3rd	4-8	Medium (small)	1/2"		✓
4th	8-11	Medium (large)	3/4"		✗
5th	11-14	Large	1"		✗
6th	14-18+	Large (snake)	1 3/4"		✗

* Do not use Heligen® as a curative treatment. In this situation, alternative control methods should be considered.

Heligen® Application Threshold:
≤ 1 small (≤ 1/2") larvae per 10 plants

WHAT TO EXPECT AFTER APPLICATION:

Up to 3 days after application: Infected larvae continue to feed but become lethargic and move to the upper canopy – becoming more exposed to heat and more vulnerable to predators.

4-6 days after application: Feeding gradually stops and, often, sick larvae hang upside down from the leaves. Their skin bursts open, releasing a liquid containing billions of viral particles onto the plant canopy. These particles are effectively dispersed by wind, rain, and many arthropods, including predators that feed on the infected larvae.

COMPATIBILITY: Heligen® is compatible as a tank mix partner with insecticides, fungicides, herbicides, and fertilizers. Ensure tank mixture solution pH is ≤ 8 prior to adding Heligen® to the tank.

CAUTION: Spray solution pH above 8 may damage the virus and reduce performance of Heligen.

Heligen

At 1st appearance of CEW
≤ 1 small (≤ 1/2") larvae per 10 plants

For more information:
www.agbitech.us

Heligen® Application Window: start at flowering
(Repeated applications may be needed for best results)

