

Heligen

Novel Mode of Action Insecticide
for Corn Earworm (CEW)



EFFECTIVE, ECONOMICAL AND
LONG-LASTING CEW MANAGEMENT

NEW IPM TOOL FOR SORGHUM



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

Effective Insecticide for the Control of Corn Earworm (CEW)



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

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

FORMULATION: Suspension concentrate (SC) **RATE:** 1.0 to 1.4 fl oz/acre

NOVEL MODE OF ACTION: **GROUP 31 INSECTICIDE** Heligen® controls 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.

Heligen Application Threshold:
≤5 small (≤ 1/2") larvae per 25 sweeps

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.

WHAT TO EXPECT AFTER APPLICATION:

Up to 3 days after application: Infected larvae continue to feed but become lethargic and move upward on the plant – thus, exposed to heat and more vulnerable to predators.

4-6 days after application: Feeding gradually stops and, often, sick are found on top of sorghum heads being cannibalized by other CEW larvae. Larval skin bursts open, releasing 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 dead larvae cadavers.



At 1st appearance of CEW (0.5 to 1.0 small larva per head)

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®. If needed, use a suitable buffer (acidifier).

Heligen® Application Window

For more information:
www.agbitech.us

