

# REVOLUTIONARY CONTROL

## SPEAR® LEP

A SOLUTION BY  
**VESTARON**  
THE POWER OF PEPTIDES™

Spear®-Lep is Vestaron's revolutionary bioinsecticide for vegetables and other high-value field crops. Targeting lepidopteran pests such as loopers, worms and caterpillars, field trials with Spear-Lep show performance that is equivalent to conventional insecticides. With no known resistance or cross-resistance, Spear-Lep works as a standalone, or in rotation with conventional insecticides as an excellent IPM and resistance management tool.

### VEGETABLE CROPS

(see label for full list)

- BROCCOLI
- CABBAGE
- CAULIFLOWER
- CELERY
- LETTUCE
- ONION
- PEPPER
- SWEET CORN
- TOMATO

### KEY FACTS

(must read and follow all label instructions)

- ✓ Bioinsecticide based on a naturally occurring peptide
- ✓ Highly specific for lepidopterans with very low risk to beneficials
- ✓ Control that equals conventional options
- ✓ Vital new tool for sustainable pest management
- ✓ New IRAC group 32 supporting resistance management
- ✓ Spear-Lep is effective when tank-mixed with its uptake facilitator, *Bacillus thuringiensis* (Btk)
- ✓ Excellent environmental and worker safety profile
- ✓ Zero-day PHI, 4-hour REI, MRL exempt
- ✓ Mode of entry - ingestion
- ✓ Mode of action - disruption of the nicotinic acetylcholine receptor
- ✓ Low risk of phytotoxicity
- ✓ Optimum tank mix pH 5.5-7.0
- ✓ Registered in all 50 states

### QUICK INFO

<b>EPA REG #</b>	88847-6
<b>AI</b>	GS-omega/kappa-Htx-Hv1a
<b>FORMULATION</b>	LIQUID
<b>IRAC GROUP</b>	32
<b>SIGNAL WORD</b>	CAUTION
<b>REI</b>	4 HOURS
<b>PHI</b>	0 DAYS
<b>PACKAGE SIZE</b>	1 GAL, 4 X 1 GAL CASE
<b>USE RATE</b>	1-2 PT/ACRE PLUS Bt
<b>RAINFAST</b>	4 HOURS
<b>SURFACTANT</b>	For best performance, use with a NIS or spreader/sticker at 0.125% v/v

### A SOLUTION BY VESTARON

Vestaron is The Peptide Company dedicated to improving the safety, efficacy, and sustainability of crop protection through migration from synthetic pesticides to biological peptides. Initially, Vestaron is focused on a class of peptides that kills insect pests efficiently, but is safe for humans, birds, fish, pollinators, and the environment. As part of this, the company has developed a proprietary platform for peptide optimization and fermentation-based peptide production that will allow development of a wide variety of effective crop protection solutions. Vestaron brands are emPOWERed by Peptides – providing new technology with a unique mode of action in a biological solution with performance equivalent to synthetic options, creating the opportunity to incorporate a new IRAC Group 32 into rotation recommendations for resistance management.

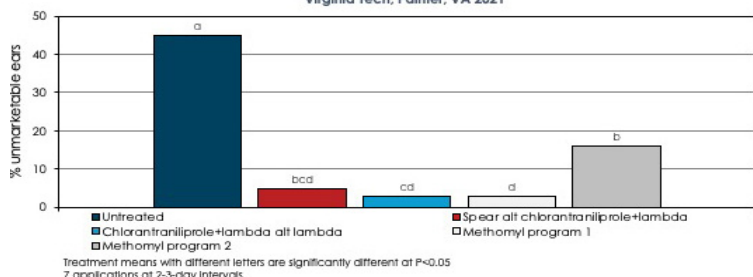
## THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.



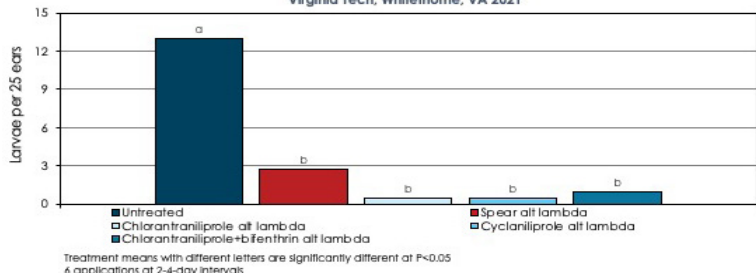


Spear-Lep controls lepidopteran larvae with equal efficacy to conventional standards

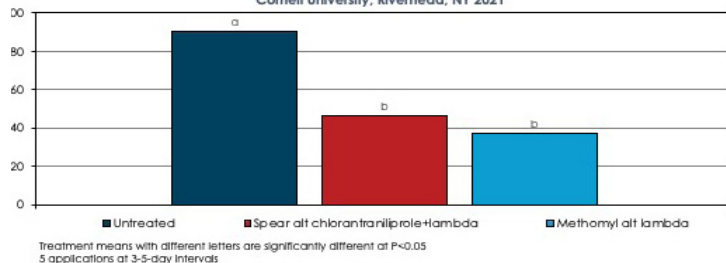
CORN EARWORM in SWEET CORN  
Virginia Tech, Painter, VA 2021



CORN EARWORM in SWEET CORN  
Virginia Tech, Whitethorne, VA 2021



CORN EARWORM in SWEET CORN  
Cornell University, Riverhead, NY 2021



**Trial Notes:**

- Chlorantraniliprole = Coragen @ 3.5 fl oz/A or Vantacor 1.2 fl oz/A
- Chlorantraniliprole+bifenthrin = Elevest @ 5.6 fl oz/A
- Chlorantraniliprole+lambda-cyhalothrin = Besiege @ 7 fl oz/A
- Cyclaniliprole = Harvanta SL @ 10.9 fl oz/A
- Lambda-cyhalothrin = Warrior II @ 1.92 fl oz/A or Lambda-Cy 2E 3.5 fl oz/A
- Methomyl = Lannate LV @ 24 or 48 fl oz/A

THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.