

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 crossresistance, 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**
- **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 or surpasses 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

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

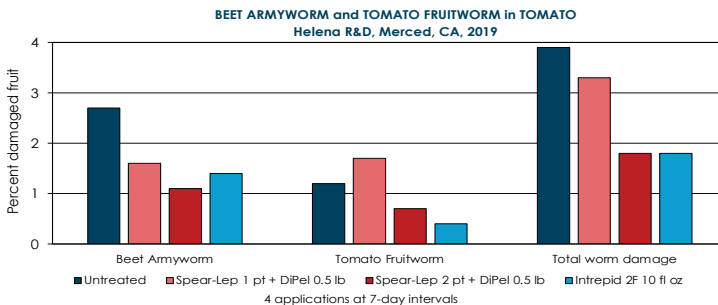
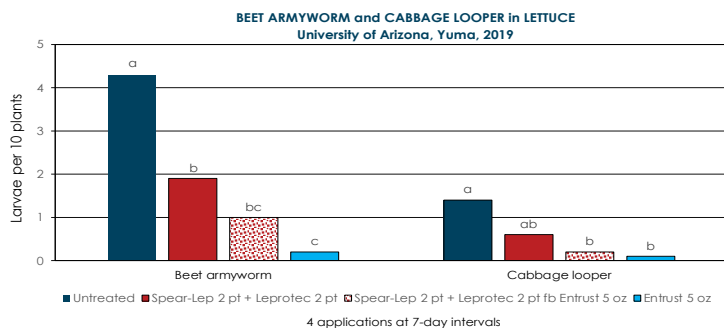
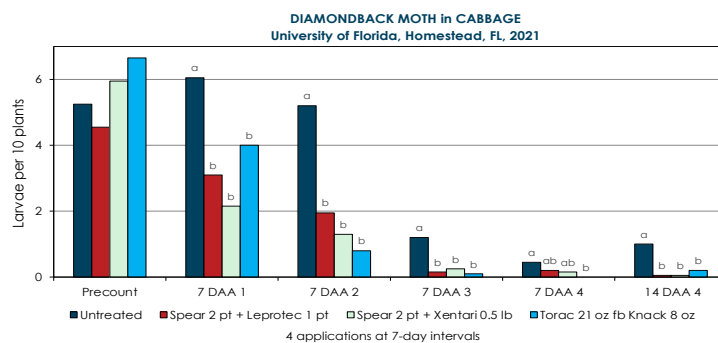
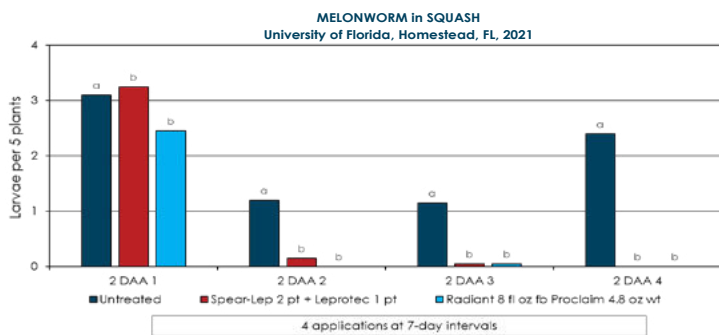
A SOLUTION BY VESTARON

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 to and often better efficacy than the conventional standards



In all graphs, treatment means marked with the same letter are not different at $p < 0.05$ (Tukey's HSD).

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