

A NEW AND RELIABLE TOOL FOR NUT GROWERS

SPEAR®-LEP

A SOLUTION BY
VESTARON
THE POWER OF PEPTIDES™

Spear®-Lep is Vestaron's revolutionary bioinsecticide for tree nuts, fruits, vegetables and other high-value field and orchard crops. Targeting lepidopteran pests such as loopers, worms and caterpillars, field trials with Spear-Lep show performance that is equal or superior 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.

FOR USE ON TREE NUTS

(see label for full list)

- **ALMOND**
- **HAZELNUT**
- **PISTACHIO**
- **WALNUT**

FOR USE ON OTHER CROPS

(see label for full list)

- **APPLE**
- **BLUEBERRY**
- **CHERRY**
- **CRANBERRY**
- **GRAPES**
- **HOPS**
- **PEAR**
- **POTATO**
- **STONE FRUIT**
- **STRAWBERRY**
- **TOMATO**
- **VEGETABLES**

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 synergist, *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
- ✓ Registered in all 50 states

QUICK INFO

EPA REG #

88847-6

AI

GS-OMEGA/
KAPPA-HXTX-HV1A

FORMULATION

LIQUID

IRAC GROUP

32

SIGNAL WORD

CAUTION

REI

4 HRS

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

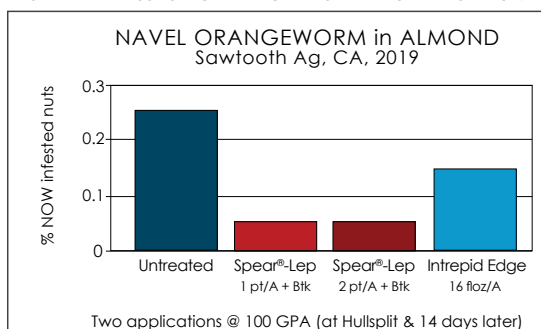
A SOLUTION BY VESTARON

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 equal to, and often better, than the synthetic options; creating the opportunity to incorporate a new IRAC Group 32 into rotation recommendations for resistance management.

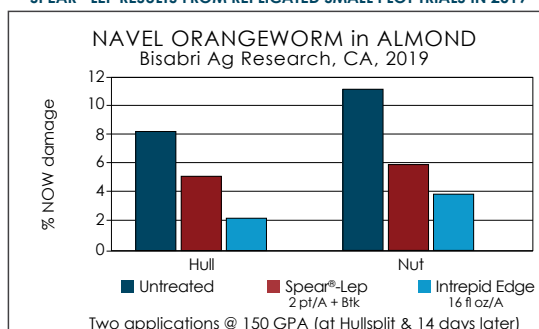
THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.



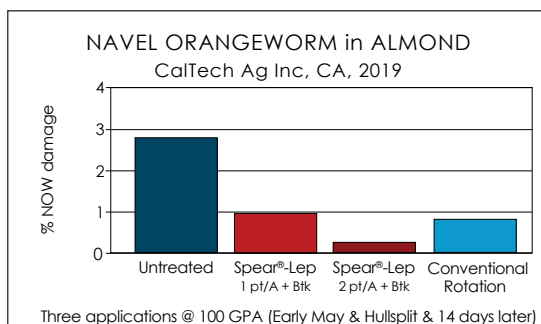
SPEAR®-LEP RESULTS FROM REPLICATED SMALL PLOT TRIALS IN 2019



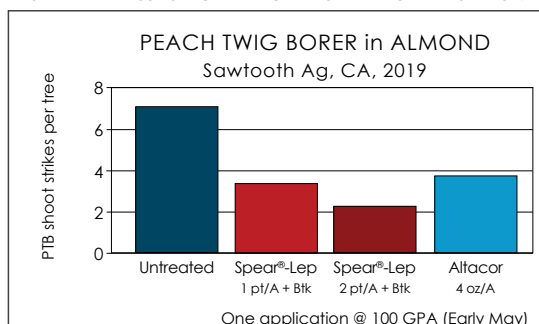
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BTK BIOLOGICAL INSECTICIDE

Leprotec® is Vestaron's Btk bioinsecticide that is the ideal partner for use with Spear-Lep. When ingested together, the Btk proteins perforate the insect mid-gut allowing the Spear peptide to access the target receptor in the nervous system, killing the pest.

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