Spear®-Lep is Vestaron’s revolutionary bioinsecticide for tree nuts, fruits, vegetables and other high-value crops in the field. 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
  
  Good choice for Navel Orangeworm control

**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**

- 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
- **FORMULATION**: 32 LIQUID
- **SIGNAL WORD**: CAUTION
- **REI**: 4 HRS
- **PHI**: 0 DAYS
- **PACKAGE SIZE**: 1 GAL, 4 X 1 GAL CASE
- **RATE**: 1-2 PT/ACRE PLUS Bt
- **RAINFAST**: 4 HOURS

For best performance, use with a NIS or spreader/sticker at 0.125% v/v

**CONTACT YOUR LOCAL REPRESENTATIVE FOR CROP-SPECIFIC INFORMATION ON BEST APPLICATION TIMING**

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

**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 and extending residual activity.