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

**VESTARON.COM**

THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.
Vestaron is a company dedicated to improving the safety, efficacy and sustainability of crop protection through migration from synthetic pesticides to peptide-based biopesticides. Vestaron is initially focused on a class of peptides that kills insects, but is safe for humans, beneficial insects and the environment. As part of this focus, the company has developed a proprietary platform for peptide optimization and fermentation-based peptide production that will allow the development of a wide variety of biological crop protection solutions. Vestaron has earned global recognition for its work, including the inaugural 2015 Bernard Blum Award for novel biocontrol solutions, a ranking in the 2020 THRIVE Top 50 list of AGTECH Growth Stage Companies, and the prestigious Green Chemistry Challenge Award from the U.S. Environmental Protection Agency and the American Chemical Society Green Chemistry Institute in 2020.

**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.