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)
- ALMONDS
- HAZELNUTS
- PISTACHIOS
- WALNUTS

FOR USE ON OTHER CROPS
(see label for full list)
- APPLES
- BLUEBERRIES
- CHERRIES
- CRANBERRIES
- GRAPES
- HOPS
- PEARS
- POTATOES
- STONE FRUITS
- STRAWBERRIES
- TOMATOES
- 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 ssp kurstaki (Btk)
- Excellent environmental profile and worker safety
- 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 2% LIQUID
- CONCENTRATE
- IRAC # GROUP 32
- SIGNAL WORD CAUTION
- RESTRICTED USE NO
- PACKAGE SIZE 1 GAL

VESTARON.COM
THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.
Vestaron Corp is 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 insect pests efficiently, but is safe for humans, beneficial insects 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 it to develop a wide variety of biological crop protection solutions. Vestaron is the winner of the inaugural 2015 Bernard Blum Award for novel biocontrol solutions.

**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 target receptors in the nervous system, killing the pest and extending residual activity.