



Spear® RC is Vestaron's revolutionary insecticide for cotton, soybean, rice, and other broad acre row crops. Targeting armyworms and other lepidopteran pests such as cotton bollworm and soybean looper, field trials with Spear RC show performance that is similar to conventional insecticides. With no known resistance or cross resistance, Spear RC works as a standalone or in rotation with conventional insecticides. Spear RC is an excellent resistance management tool and is soft on your beneficials.

## PRODUCT INFORMATION

EPA REG #	88847-6
AI	GS-OMEGA/ KAPPA-HXTX-HV1A
FORMULATION	LIQUID
IRAC GROUP	32
SIGNAL WORD	CAUTION
REI	4 HOURS
PHI	0 DAYS
PACKAGE SIZE	2.5 GAL, 2.5X2 GAL CASE
USE RATE	2 PT/ACRE PLUS Btk
SURFACTANT	For best performance, use with a NIS or spreader/sticker at 0.125% v/v

## KEY FACTS

- New IRAC Group 32 supporting resistance management
  - Mode of Entry: Ingestion
  - Mode of Action: Disruption of the nicotinic acetylcholine receptor
- Control equivalent to synthetic options
- Highly specific for lepidopteran larvae with very low risk to beneficials
- Vital new tool for integrated pest management
- For optimal performance mix Spear RC with a low rate of Bt. *(we recommend Leprotec®)*
- Excellent environmental and worker safety profile
- 0-Day PHI, 4-Hour REI, & MRL Exempt
- Low risk of phytotoxicity

## MAIN CROPS

*(refer to label for full list of crops)*

- ALFALFA
- CORN
- COTTON
- HEMP
- PEANUTS
- RICE
- SOYBEAN
- TOBACCO
- TOMATO



Spear RC has a new MOA making it the only insecticide in the new IRAC Group 32.

Spear RC controls lepidopteran pests while allowing your beneficials to control other damaging pests.

**NEW  
IRAC  
GROUP 32**

**SOFT ON  
BENEFICIALS**



**4-HOUR  
REI**

**0-DAY  
PHI**

A short Restricted-Entry Interval (REI) provides flexibility and desired worker safety profiles.

Spear RC can be applied and crops can be harvested within the same day, providing a tool that allows growers flexibility in the field.

## HOW IT WORKS



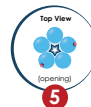
1 Pest ingests plant tissue treated with Spear RC and a low dose of Btk.



4 The open channel causes persistent depolarization of the nerve cell.



2 Btk crystal proteins damage the gut cells allowing Spear RC access to the nervous system.



5 The affected cells are unable to reset and transmit new electrical signals.



3 Spear RC helps neurotransmitters to bind and open the receptor's ion channels.



6 This causes paralysis and death of the insect.

*\*Leptotec is Vestaron's OMRI Certified Btk insecticide that is the ideal partner for use with Spear RC. When ingested together, the non-lethal dose of Btk proteins perforate the insect mid-gut allowing the Spear peptide to access the target receptor in the nervous system, killing the pest.*

## PESTS CONTROLLED

*(refer to label for full list of pests controlled)*

- COTTON BOLLWORM/  
CORN EARWORM/  
SORGHUM HEADWORM
- ARMYWORMS
- SOYBEAN PODWORM
- SOYBEAN LOOPER
- TOBACCO HORNWORM
- TOMATO FRUITWORM

**SPEAR<sup>®</sup> RC**

A SOLUTION BY  
**VESTARON**  
THE POWER OF PEPTIDES

**VESTARON.COM**

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