



DIPEL OFFERS
SEASON-LONG BENEFITS



Effective control of
caterpillar pests



Harvest-ready



Eco-friendly protection



Dependable

DiPel® BIOLOGICAL INSECTICIDE

THE STRAIN MAKES THE DIFFERENCE

DiPel® Biological Insecticide contains *Bacillus thuringiensis* subsp. *kurstaki* (Btk) strain ABTS-351, offering reliable, broad-spectrum caterpillar control on more than 200 crops.

DiPel contains a unique balance of multiple insecticidal proteins and Bt spores that maximize efficacy against lepidopteran pests. This is why DiPel is widely considered the industry standard for biological caterpillar control.

DiPel Biological Insecticide:

- **Acts fast;** larvae stop feeding within minutes
- **Is exempt from residue tolerance** with as short as a 0-day PHI and 4-hr REI, allowing fruit to be harvested within hours of application (follow local labels and guidelines)
- **Demonstrates effective resistance management**, having never developed cross-resistance with any other insecticide
- **Can be tank mixed** with most insecticides, fungicides, and foliar nutrients
- **Is listed for use in organic agriculture**, making it suitable for any type of operation

DiPel Has the Right Cry Protein Profile to Manage Key Lepidopteran Pests

SPECIES	Cry1Aa	Cry1Ab	Cry1Ac	Cry2A
Obliquebanded Leafroller (<i>Choristoneura rosaceana</i>)	+	+	+	++
Corn Earworm (<i>Helicoverpa zea</i>)	+	++	++	+
Codling Moth (<i>Cydia pomonella</i>)	+	++	-	++
Cabbage Looper (<i>Trichoplusia ni</i>)	+	+	++	++
Armyworm Species (<i>Spodoptera spp.</i>)	+	++	-	-
Diamondback Moth (<i>Plutella xylostella</i>)	++	++	++	-
Cabbage Moth (<i>Pieris brassicae</i>)	+	+	+	~
Oriental Fruit Moth (<i>Grapholita molesta</i>)	+	++	-	++

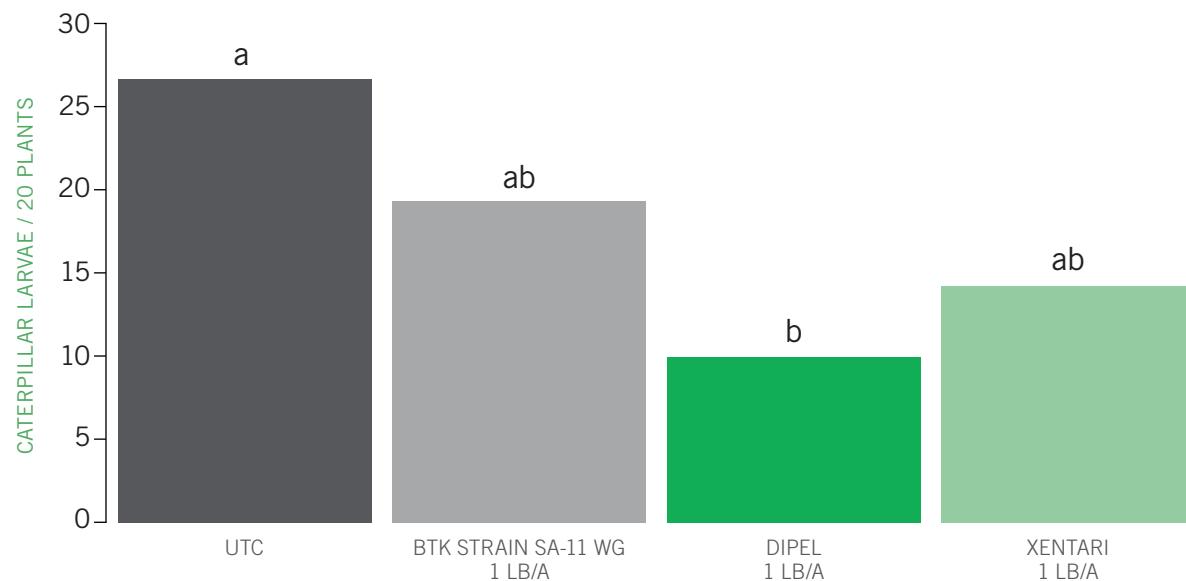
++ GOOD ACTIVITY + MODERATE ACTIVITY - MINOR ACTIVITY ~ NOT TESTED

Season-Long Benefits

EARLY SEASON	MID-SEASON	LATE SEASON			
 STOP FEEDING IMMEDIATELY	 PRESERVE BENEFICIAL INSECTS	 MANAGE RESISTANCE	 PROMOTE SUSTAINABILITY	 MANAGE HARVEST SCHEDULES	 MINIMIZE RESIDUE LEVELS
<p>DiPel manages Lepidoptera pests without harming natural predators and parasitoids and can even be applied when bees are active. Follow local labels and guidelines.</p>	<p>DiPel's unique mode of action can fend off resistance development when used in rotation with other insecticides.</p>	<p>DiPel does not have an MRL and will not contribute to chemical residues on fresh produce, allowing application right up until harvest to protect produce when it's at its highest value. Follow local labels and guidelines.</p>			

DiPel Caterpillar Control in Head Lettuce (*Lactuca sativa* cv. *Deuce*)

Pests Observed: southern armyworm, true armyworm, yellow stripe armyworm and woolly caterpillar



Four separate applications were made at 7-day intervals.