

Table of biopesticides organized by type of active ingredient in products available in the United States, product names, and labeled crop types plus target organisms for these products.

Type of active ingredient	Active ingredient(s)	Example product(s)	Labeled crop types		Target organisms			
			Vegetables	Herbs	Fungi	Bacteria	Virus	Nematode
Botanical	Clove, rosemary, peppermint oil, cottonseed oil, thyme, garlic, cinnamon	GreenFurrow BacStop	X		X	X		
	Clove, rosemary, peppermint oil, cottonseed oil	GreenFurrow EF 400	X	X	X			
	Cottonseed oil, corn oil, garlic extract	Mildew Cure	X		X			
	Garlic oil	Brandt Organics Aleo	X	X	X	X		
	Neem oil	ECOWORKS EC, Rango, TerraNeem EC, Triact 70, Trilogy	X	X	X			X
	Sesame oil	Organocide	X	X	X	X		
	Rosemary oil, clove oil, thyme oil, peppermint oil	Sporan	X	X	X	X		
	<i>Swinglea glutinosa</i> (citrus tree species) extract	EcoSwing	X	X	X			
	<i>Reynoutria sachalinensis</i> (giant knotweed) extract	Regalia, Regalia CG, Regalia RX	X	X	X	X		
	Tea tree oil	Timorex Act, Timorex Gold	X		X	X		
	Thyme oil	Promax, Thymox Control, Trillium, Thyme Guard	X	X	X	X	X	X
	Banda de Lupinus albus doce (BLAD) polypeptides	Fracture, Problad Verde	X		X			
Inorganic	Hydrogen dioxide	OxiDate 2	X	X	X	X		
	Phosphorous acid and salts	K-Phite, Prophyt, etc.	X	X	X			
	Polyoxin D zinc salt	Affirm WDG, Endorse, Oso 5% SC, Ph-D	X	X	X			
	Potassium bicarbonate	Carb-O-Nator, Kaligreen, Milstop	X	X	X			
	Potassium silicate	Carbon Defense, Sil-Matrix	X	parsley ^a	X			
	Sodium carbonate peroxyhydrate	PerCarb	X	X	X	X		
Bacteriophage	Unspecified Bacteriophages (8 strains)	AgriPhage, AgriPhage CMM	X			X		

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BACTERIUM								
<i>Bacillus amyloliquefaciens</i>	strain MBI 600	Serifel	X	parsley	X	X		
	strain D747 (Ba D747)	Double Nickel 55, Double Nickel LC	X	X	X	X		
	strain F727	Amplitude, Amplitude ST, Stargus	X	X	X	X		
<i>Bacillus mycoides</i>	isolate J	LifeGard WG	X	parsley	X	X	X	
<i>Bacillus pumilus</i>	QST 2808	Sonata	X	parsley	X	X		
<i>Bacillus subtilis</i>	strain IAB/BS03	AVIV	X	X	X	X		
	strain QST 713	Cease, Serenade (ASO, MAX, SOIL), Rhapsody	X	X	X	X		
	strain GB03	Companion	X	X	X	X		
	var. <i>amyloliquefaciens</i> strain FZB24	Taegro, Taegro 2	X	parsley	X	X		
<i>Burkholderia</i>	<i>Burkholderia</i> spp. strain A396 cells (heat-killed)	BioST Nematicide 100	X	parsley				X
	<i>Burkholderia</i> spp. strain A396 cells (heat-killed)	Majestene	X					X
<i>Pseudomonas</i>	<i>P. chlororaphis</i> strain AFS009	Howler	X	parsley	X			
	<i>P. chlororaphis</i> subsp. <i>aurantiaca</i> strain AFS009	Zio	X		X			
Bacterial peptide	Rhamnolipid biosurfactant (from <i>Peudomonas aeruginosa</i>)	Zonix	X	X	X			

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FUNGUS								
<i>Gliocladium</i>	<i>G. catenulatum</i> strain J1446	LALSTOP G46 WG, Pvent, Prestop	X	X	X			
	<i>G. virens</i> GL-21	SoilGard	X		X			
<i>Streptomyces</i>	<i>S. griseoviridis</i> strain K61	Mycostop, PreFence	X	X	X	X		
	<i>S. lydicus</i> WYEC 108	Actinovate AG, Actinovate STP	X	X	X	X		
	<i>S. lydicus</i> WYEC 108 + molybdenum + iron + humic acid	Actino-Iron	X	X	X			
<i>Trichoderma</i>	<i>Trichoderma</i> and related genera	Tenet WP	X	X	X			
	<i>T. asperellum</i> (ICC 012) & <i>T. gamsii</i> (ICC 080)	Bio-Tam 2.0	X	X	X			
	<i>T. harzianum</i> strain T-22	RootShield WP, RootShield AG	X	X	X			
	<i>T. harzianum</i> strain T-22 and <i>T. virens</i> strain G-41	RootShield Plus WP	X	X	X			
Other fungal species	<i>Aureobasidium pullulans</i> strain DSM 14940 and 14941	Botector	X	parsley	X			
	<i>Coniothyrium minitans</i>	Contans WG	X	X	X			
	<i>Myrothecium verrucaria</i> strain AARC-0255 - dried fermentation solids & solubles	DiTera DF	X	X				X
	<i>Paecilomyces lilacinus</i> strain PL251	MeloCon WG	X	X				X
	cerevisane (cell walls of <i>Saccharomyces cerevisiae</i> strain LAS117)	Romeo	X	X	X	X		
	<i>Ulocladium oudemansii</i> strain U3	Botrystop	X	X	X			

^a Parsley is the only herb labeled

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