

THIS IS HOW WE LEAD

With a proven, broad portfolio of crop protection **solutions** for organic and conventional production, Certis Biologicals has the **answers** growers **need** in today's dynamic agricultural environment. Pioneering innovations to **solve** tomorrow's agricultural issues makes Certis Biologicals the **leader** in biopesticides.

150+
EXPERTS SUPPORTING
GROWERS WORLDWIDE

INDUSTRY EXPERIENCE

With decades of experience and a global team of crop protection experts, Certis delivers field-proven support to growers. Our specialists in entomology, plant pathology, and agronomy help develop and optimize biological solutions that drive results and maximize return on investment.

3
DEDICATED
PRODUCTION PLANTS

MANUFACTURING EXPERTISE

Certis owns and operates two state-of-the-art fermentation production facilities in the United States located in Wasco, CA and Butte, Montana. Through a joint venture, Certis also co-owns and operates a facility in India for plant extraction of neem-based products.

20+
YEARS OF
FIELD DATA

PROVEN RESULTS

With more than 20 years of field data behind our portfolio, Certis collaborates with expert growers, consultants, and researchers to continually test and refine product performance. Our biological solutions are field-proven across a wide range of crops and conditions, delivering reliable results that support strong yields and return on investment.

30+
BIOLOGICAL
PRODUCTS

LEADING CERTIFICATIONS

Our portfolio offers one of the most comprehensive selections of biological solutions available—trusted by both conventional and organic growers. Each product has been rigorously evaluated by accredited certifiers to meet National List standards, providing confidence in compliance and performance from the field to harvest.

LEARN MORE AT
CERTISBIO.COM

LEADING BIOLOGICALS

With a legacy of innovation and more than 30 years focused exclusively on biologicals, Certis Biologicals is a trusted partner in sustainable crop protection. Our proven portfolio, deep technical expertise, and commitment to grower success continue to shape the future of farming—delivering effective solutions for all production systems, from conventional to organic.



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INSECTICIDES

FUNGICIDES / BACTERICIDES

BT BIOLARVICIDES

Agree®
A*
Bt aizawai
strain GC-91

CryMax®
CM
Bt kurstaki
strain EG7841

Deliver®
De*
Bt kurstaki

Javelin®
J*
Bt kurstaki

BoteGHA®
BG*
Beauveria bassiana
strain GHA

PFR-97™
PFR*
Isaria fumosorosea
Apopka strain 97

INSECTICIDAL VIRUSES

CYD-X®
CX*
Cydia pomonella

Gemstar®
G*
Helicoverpa zea

Madex®
Ma*
Cydia pomonella

INSECTICIDAL SOAP

DES-X®
DX*
Potassium salts of fatty acids

INSECTICIDAL & MOLLUSCICIDAL BAITS

Bug-N-Sluggo®
BnS*
Spinosad and iron phosphate

Seduce®
Se*
Spinosad

Sluggo®
SI*
Iron phosphate

INSECT GROWTH REGULATOR

Neemix®
Nx*
Azadirachtin

BIONUTRIENTS

AgSil® 16H
AS¹⁶
Potassium silicate

AgSil® 21
AS²¹
Potassium silicate

AgSil® 25
AS²⁵
Potassium silicate

HERBICIDE

Homeplate®
Hp*
Caprylic Acid (45.14%),
Capric Acid (34.76%)

NEMATOCIDE

NemaClean®
NC*
Purpureocillium lilacinum PL11

BIOLOGICAL PLANT ACTIVATOR

LifeGard®
LG*
Bacillus mycoides
isolate J

MITICIDES

Trilogy®
Tr*
Clarified hydrophobic
extract of neem oil

Sil-MATRIX®
SM*
Potassium silicate

BIOCHEMICALS

Cueva®
Cu*
Copper octanoate

Kocide® 2000-O
K2*
Copper hydroxide

Kocide® 3000-O
K3*
Copper hydroxide

BIOFUNGICIDES

Double Nickel®
DN*
Bacillus amyloliquefaciens
strain D747

OSO®
O*
Polyoxin D zinc salt

Howler EVO®
HE*
Pseudomonas chlororaphis AFS009

Theia®
Th*
Bacillus subtilis
AFS032321

Convergence®
Co*
Bacillus amyloliquefaciens



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LEADING BIOLOGICALS



	Active Ingredient	Pest Controlled	OMRI Listed	NOP Approved	Residue Exempt	REI	PHI	Application Interval ¹
BIOLOGICAL PLANT ACTIVATOR								
LifeGard® WG	<i>Bacillus mycoides isolate J</i>	Bacterial disorders, <i>Cercospora</i> blight, downy mildew, early blight, fire blight, late blight, PVY potato virus Y (seed potatoes), white mold	✓	✓	✓	4 hrs.	0	7-10 days
INSECTICIDES								
Bt Biolarvicides								
Agree® WG	<i>Bt aizawai strain</i> GC-91	<i>Lepidoptera</i> (caterpillar) pests	✓	✓	✓	4 hrs.	0	3-14 days
Crymax®	<i>Bt kurstaki strain</i> EG7841	<i>Lepidoptera</i> (caterpillar) pests	—	—	✓	4 hrs.	0	3-14 days
Deliver®	<i>Bt kurstaki strain</i> SA-12	<i>Lepidoptera</i> (caterpillar) pests	✓	✓	✓	4 hrs.	0	3-14 days
Javelin® WG	<i>Bt kurstaki strain</i> SA-11	<i>Lepidoptera</i> (caterpillar) pests	✓	✓	✓	4 hrs.	0	3-14 days
Bioinsecticides								
BoteGHA® ES	<i>Beauveria bassiana strain</i> GHA	Aphids, leafhoppers, mealybugs, psyllids, thrips, whiteflies	✓	✓	✓	4 hrs.	0	5-10 days
PFR-97® 20% WDG	<i>Isaria fumosorosea Apopka strain</i> 97	Aphids, mites, phorid flies, psyllids, root aphids, thrips, whiteflies	✓	✓	✓	4 hrs.	0	7-10 days
Insect Growth Regulator								
Neemix® 4.5	Azadirachtin	Aphids, leafminers, whiteflies	✓	✓	✓	4 hrs.	0	7-21 days
Insecticidal Viruses								
CYD-X® and CYD-X® HP	<i>Cydia pomonella</i> GV	Codling moth larvae	✓	✓	✓	4 hrs.	0	7-14 days
Gemstar® LC	<i>Helicoverpa zea</i> NPV	Bollworm, budworm, corn earworm larvae, earworm, tomato fruitworm	✓	✓	✓	4 hrs.	0	7-14 days
Madex® HP and Madex® XLV	<i>Cydia pomonella</i> CpGV V-22 and V-45	Codling moth, Oriental fruit moth larvae	✓	✓	✓	4 hrs.	0	7-14 days
Insecticidal Soaps and Oils								
DES-X®	Potassium salts of fatty acids	Aphids, powdery mildew, whiteflies	✓	✓	✓	12 hrs.	0	7-21 days
Trilogy®	Clarified hydrophobic extract of neem oil	Aphids,, mites, thrips, whiteflies	✓	✓	✓	4 hrs.	0	7-21 days
Insecticidal and Molluscicidal Baits								
Bug-N-Sluggo®	Spinosad, iron phosphate	Ants, cutworms, earwigs, pillbugs, slugs, snails, sowbugs	✓	✓	—	4 hrs.	Varies	14-28 days
Seduce®	Spinosad	Ant, cutworm, earwig	✓	✓	✓	4 hrs.	Varies	14-28 days
Sluggo® (Eastern U.S. only)	Iron phosphate	Slugs, snails	✓	✓	✓	0 hrs.	0	14-28 days
FUNGICIDES and/or BACTERICIDES								
Biofungicides								
Convergence®	<i>Bacillus amyloliquefaciens strain</i> D747	<i>Botrytis</i> , damping off, leaf spot, powdery mildew, rust, tar spot, white mold	✓	✓	✓	4 hrs.	0	n/a
Double Nickel 55®WG	<i>Bacillus amyloliquefaciens strain</i> D747	<i>Alternaria</i> , bacterial diseases, foliar diseases, powdery mildew	✓	✓	✓	4 hrs.	0	7-10 days
Double Nickel® LC	<i>Bacillus amyloliquefaciens strain</i> D747	<i>Alternaria</i> , bacterial diseases, <i>Fusarium</i> , powdery mildew, <i>Rhizoctonia</i>	✓	✓	✓	4 hrs.	0	7-10 days
Howler EVO®	<i>Pseudomonas chlororaphis strain</i> AFS009	<i>Botrytis</i> , <i>Fusarium</i> , <i>Monilinia</i> , <i>Neopestaloptiosis</i> , <i>Rhizoctonia</i> , scab, shot hole	✓	✓	✓	4 hrs.	0	5-14 days
OSO® 5% SC	Polyoxin D zinc salt	<i>Anthracnose</i> , <i>Botrytis</i> , fruit rots, flyspeck, powdery mildew, sooty blotch	✓	✓	✓	4 hrs.	0	7-14 days
Theia®	<i>Bacillus subtilis strain</i> AFS032321	Bacterial diseases, downy mildew, <i>Phytophthora</i> , <i>Pythium</i>	✓	✓	✓	4 hrs.	0	2-10 days
Trilogy®	Clarified hydrophobic extract of neem oil	Black spot, powdery mildew, rust	✓	✓	✓	4 hrs.	0	7-10 days
Biochemicals								
Cueva®	Copper octanoate	Bacterial disorders, downy mildew, powdery mildew	✓	✓	✓	4 hrs.	0	7-10 days
Kocide® 2000-0	Copper hydroxide	Bacterial disorders, fire blight	✓	✓	✓	48 hrs.	0 ³	7-10 days
Kocide® 3000-0	Copper hydroxide	Bacterial disorders, fire blight	✓	✓	✓	48 hrs.	0 ³	7-10 days
Sil-MATRIX® LC	Potassium silicate	Aphids, <i>Botrytis</i> , mites, powdery mildew	✓	✓	✓	48 hrs.	0	7-10 days
MITICIDES (Acaricides)								
PFR-97™ 20% WDG	<i>Isaria fumosorosea Apopka strain</i> 97	<i>Lepidoptera</i> (caterpillar) pests	✓	✓	✓	4 hrs.	0	7-10 days
Trilogy®	Clarified hydrophobic extract of neem oil	Broad mites, rust mites, spider mites	✓	✓	✓	4 hrs.	0	7-21 days
Sil-MATRIX® LC	Potassium silicate	Aphids, <i>Botrytis</i> , mites, powdery mildew	✓	✓	✓	4 hrs.	0	7-10 days
NEMATICIDES								
NemaClean®	<i>Purpureocillium lilacinum strain</i> PL11	Plant parasitic nematodes (burrowing, citrus nematodes, false root knot, root knot, root lesion, sting nematodes)	✓	✓	✓	12 hrs.	0	4-10 days
HERBICIDES								
Homeplate®	Fatty acid (caprylic and capric acid blend)	Algae and moss, broadleaf weeds, grasses	✓ ²	✓	n/a	24 hrs.	0	n/a
SILICON AND POTASSIUM BIONUTRIENT SOURCE								
AgSil® 16H	Potassium silicate	Drought, metal toxicity management, salinity, stress	—	—	✓	n/a	n/a	n/a
AgSil® 21	Potassium silicate	Drought, metal toxicity management, salinity, stress	—	—	✓	n/a	n/a	n/a
AgSil® 25	Potassium silicate	Drought, metal toxicity management, salinity, stress	—	—	✓	n/a	n/a	n/a



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¹These intervals are for general information purposes. Actual use patterns may vary according to pest pressure, crop growth stage, and other circumstances. All applications must be consistent with label use instructions.

²OMRI listed with conditions.

³PHI is 0 unless otherwise noted on product label.

Always read and carefully follow label instructions.