

132+
EMPLOYEES

More than 132 employees are based at Certis USA headquarters in Maryland, manufacturing plant in California and throughout the United States.

20
SALES AND MARKETING EMPLOYEES

Twenty sales and marketing employees steward products in the NAFTA region.

3
DEDICATED PRODUCTION PLANTS

Certis USA owns and operates 3 dedicated production plants. Two are for fermentation and one is for plant extraction of neem-based products.

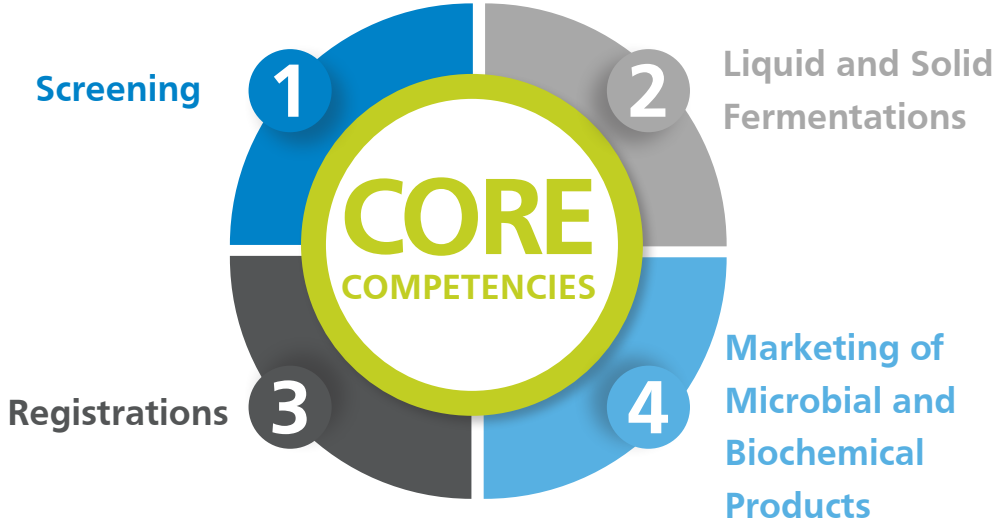
30+
BIOLOGICAL PRODUCTS

OMRI LISTED

Certis USA features the broadest OMRI Available™ biological offerings in the industry. And most are Residue Exempt.



Certis has performed more than 6,000 field trials of biopesticides since 1997.



6,000+
FIELD TRIALS

We are wholly owned by Mitsui & CO., Ltd. one of the world's most diversified trading, investment and services companies. It has a global network of 150 offices in 67 countries, as well as about 320 associated companies worldwide.

WHOLLY OWNED BY

MITSUI & CO.

INSECTICIDES

BT BIOLARVICIDES

Agree®
A*
Bt aizawai

CryMax®
CM
Bt kurstaki

Deliver®
De*
Bt kurstaki

Javelin®
J*
Bt kurstaki

BoteGHA®
Bb*
Beauveria bassiana strain GHA

Requiem Prime®
RP
Extract of Chenopodium ambrosioides

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 AND MOLLUSCIDAL BAITS

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

Firefighter™
Ff
Spinosad

Seduce®
Se*
Spinosad

Sluggo®
SL*
Iron phosphate

INSECT GROWTH REGULATOR

Neemix®
Nx*
Azadirachtin

BIONUTRIENTS

AgSil® 16H
AS16
Potassium silicate

AgSil® 21
AS21
Potassium silicate

AgSil® 25
AS25
Potassium silicate

HERBICIDES

Final-San-0®
FSO*
Ammoniated soap of fatty acids

Homeplate®
HP*
Non-selective herbicide

BIOLOGICAL PLANT ACTIVATOR

LifeGard®
LG*
Bacillus mycoides

MITICIDES

Trilogy®
Tr*
Clarified hydrophobic extract of neem oil

Sil-MATRIX®
SM*
Potassium silicate

FUNGICIDES / BACTERICIDES

BIOFUNGICIDES

Double Nickel®
DN*
Bacillus amyloliquefaciens

BIOCHEMICALS

Cueva®
Cu*
Copper octanoate

Carb-0-Nator®
CON*
Potassium bicarbonate

Kocide HCu
KHCu
Copper Hydroxide

Kocide® 2000-0
K2*
Copper hydroxide

Kocide® 3000-0
K3*
Copper hydroxide

ManKocide®
MK
Mancozeb and copper hydroxide

OSO®
O*
Polyoxin D zinc salt

SoilGard®
SG*
Gliocladium virens

AgriPhage™
AP
Bacteriophage

AgriPhage CMM™
APCMM
Bacteriophage

AgriPhage Citrus Canker™
APCC
Bacteriophage

AgriPhage Fireblight™
APFB
Bacteriophage



Active Ingredient	Pest Controlled	OMRI Listed [®]	NOP Compliant	Residue Exempt	REI	PHI	Application Interval ¹
BIOLOGICAL PLANT ACTIVATOR							
LifeGard [®] WG	<i>Bacillus mycooides</i> isolate J	Early blight, late blight, white mold, PVY potato virus Y (seed potatoes), <i>Cercospora</i> blight, fire blight, bacterial disorders, downy mildew	✓	✓	✓	4 hrs. 0	7-10 days
INSECTICIDES							
Bt Biolarvicides							
Agree [®] WG	<i>Bt aizawai</i> strain GC91	Lepidoptera (caterpillar) pests	✓	✓	✓	4 hrs. 0	3-14 days
Crymax [®]	<i>Bt kurstaki</i> strain EG7841	Lepidoptera (caterpillar) pests	—	—	✓	4 hrs. 0	3-14 days
Deliver [®]	<i>Bt kurstaki</i> strain SA-12	Lepidoptera (caterpillar) pests	✓	✓	✓	4 hrs. 0	3-14 days
Javelin [®] WG	<i>Bt kurstaki</i> strain SA-11	Lepidoptera (caterpillar) pests	✓	✓	✓	4 hrs. 0	3-14 days
Bioinsecticides							
BoteGHA [®]	<i>Beauveria bassiana</i> strain GHA	Whiteflies, aphids, thrips, psyllids, mealybugs, leafhoppers	✓	✓	✓	4 hrs. 0	5-10 days
PFR-97 [™] 20% WDG	<i>Isaria fumosorosea</i> Apopka strain 97	Aphids, whiteflies, thrips, mites, psyllids, root aphids, phorid flies	✓	✓	✓	4 hrs. 0	7-10 days
Requiem Prime [®]	Extract of <i>Chenopodium ambrosioides</i>	Mites, Thrips, White Flies	—	—	✓	4 hrs. 0	As Needed
Insect Growth Regulator							
Neemix [®] 4.5	Azadirachtin	Leafminers, whiteflies, aphids	✓	✓	✓	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	Corn earworm larvae, earworm, bollworm, budworm, tomato fruitworm	✓	✓	✓	4 hrs. 0	7-14 days
Madex [®] HP	<i>Cydia pomonella</i> CpGV V-22	Codling moth, Oriental fruit moth larvae	✓	✓	✓	4 hrs. 0	7-14 days
Insecticidal Soaps and Oils							
DES-X [®]	Potassium salts of fatty acids	Aphids, whiteflies, powdery mildew	✓	✓	✓	12 hrs. 0	7-21 days
Trilogy [®]	Clarified hydrophobic extract of neem oil	Aphids, whiteflies, mites, thrips	✓	✓	✓	4 hrs. 0	7-21 days
Insecticidal and Molluscicidal Baits							
Bug-N-Sluggo [®]	Spinosad, iron phosphate	Ants, earwigs, cutworms, slugs, snails, pillbugs, sowbugs	✓	✓	✓	4 hrs. Varies	14-28 days
Firefighter [™]	Spinosad	Harvester Ants and Fire Ants	—	—	—	4 hrs. 0	14 days
Seduce [®]	Spinosad	Ants, earwigs, cutworms	✓	✓	—	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							
Double Nickel 55 [®] WG	<i>Bacillus amyloliquefaciens</i> strain D747 (Ba D747)	Powdery mildew, <i>Botrytis</i> , bacterial disorders, foliar diseases	✓	✓	✓	4 hrs. 0	7-10 days
Double Nickel [®] LC	<i>Bacillus amyloliquefaciens</i> strain D747 (Ba D747)	<i>Rhizoctonia</i> , <i>Phytophthora</i> , <i>Sclerotinia</i> , <i>Pythium</i> , <i>Fusarium</i> , soil diseases	✓	✓	✓	4 hrs. 0	7-10 days
OSO [®] 5% SC	Polyoxin D zinc salt	Anthrachnose, <i>Botrytis</i> , powdery mildew, fruit rots, sooty blotch, flyspeck	✓	✓	✓	4 hrs. 0	7-14 days
SoilGard [®]	<i>Gliocladium virens</i> GL-21	Damping off and other soil-borne diseases	✓	✓	✓	0 hrs. 0	7-28 days
Trilogy [®]	Clarified hydrophobic extract of neem oil	Powdery mildew, rust, black spot	✓	✓	✓	4 hrs. 0	7-14 days
Biochemicals							
Carb-O-Nator [®]	Potassium bicarbonate	Powdery mildew, <i>Botrytis</i>	✓	✓	✓	4 hrs. 0	5-14 days
Cueva [®]	Copper octanoate	Bacterial disorders, downy mildew, powdery mildew	✓	✓	✓	48 hrs. 0 ³	7-10 days
Kocide HCu	Copper Hydroxide	Bacterial disorders, fire blight	—	—	✓	4 hrs. 0	7-10 days
Kocide [®] 2000-O	Copper hydroxide	Bacterial disorders, fire blight	✓	✓	✓	48 hrs. 0 ³	7-10 days
Kocide [®] 3000-O	Copper hydroxide	Bacterial disorders, fire blight	✓	✓	✓	48 hrs. 0 ³	7-10 days
ManKocide [®]	Copper hydroxide and mancozeb	<i>Alternaria</i> , powdery mildew, <i>Botrytis</i> , purple blotch	—	—	—	48 hrs. Varies	5-14 days
Sil-MATRIX [®]	Potassium silicate	Powdery mildew, <i>Botrytis</i> , mites, aphids	✓	✓	✓	4 hrs. 0	7-10 days
Bacteriophages							
AgriPhage [™]	Bacteriophage	Bacterial spot and speck on tomatoes and peppers	—	✓	✓	4 hrs. 0	3-7 days
AgriPhage [™] CMM	Bacteriophage	Bacterial canker disease on tomatoes	—	✓	✓	4 hrs. 0	3-7 days
Agriphage Citrus Canker [™]	Bacteriophage	Citrus Canker	—	✓	✓	4 hrs. 0	3-7 days
Agriphage Fireblight [™]	Bacteriophage	Fire Blight	—	✓	✓	4 hrs. 0	3-7 days
MITICIDES (Acaricides)							
PFR-97 [™] 20% WDG	<i>Isaria fumosorosea</i> Apopka strain 97	Mites, aphids, whiteflies, thrips, psyllids	✓	✓	✓	4 hrs. 0	7-10 days
Sil-MATRIX [®]	Potassium silicate	Mites, powdery mildew, <i>Botrytis</i> , aphids	✓	✓	✓	4 hrs. 0	7-10 days
Trilogy [®]	Clarified hydrophobic extract of neem oil	Spider mites, broad mites, rust mites	✓	✓	✓	4 hrs. 0	7-21 days
NEMATOCIDES							
MeloCon [®] WG	<i>Paecilomyces lilacinus</i>	Plant parasitic nematodes, including root knot, burrowing, cyst, root lesion, false root knot and sting nematodes	✓	✓	✓	4 hrs. 0	4-6 weeks
HERBICIDES							
Final-San-O [®]	Ammoniated soap of fatty acids	Grasses and broadleaf weeds	✓ ²	✓	✓	24 hrs. 0	14-21 days
Homeplate [®]	Fatty acid (caprylic and capric acid blend)	Broadleaf weeds, grasses, algae and moss	✓ ²	✓	n/a	12 hrs. 0	n/a
SILICON AND POTASSIUM BIONUTRIENT SOURCE							
AgSil [®] 16H	Potassium silicate	Stress, drought, salinity, metal toxicity management	—	—	✓	n/a n/a	n/a
AgSil [®] 21	Potassium silicate	Stress, drought, salinity, metal toxicity management	—	—	✓	n/a n/a	n/a
AgSil [®] 25	Potassium silicate	Stress, drought, salinity, metal toxicity management	—	—	✓	n/a n/a	n/a



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¹ These 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.

² OMRI Listed[®] with conditions.

³ PHI is 0 unless otherwise noted on product label. Always read and carefully follow label instructions.