



Healthy plants all have some ability to protect themselves against invading pathogens. Plants, however, need time to react to the invasion and often the pathogen overwhelms the plant too quickly to make a difference. LifeGard® gives plants an early warning signal and the plant switches on immune defenses before pathogen invasion.

LifeGard® is a naturally occurring beneficial bacteria called Bacillus mycoides isolate J (BmJ). This beneficial bacterium triggers a plant's built in immune system which gives the plant time to build its defenses, while limiting infection and development of bacterial and fungal diseases. (See Figure 1)

LifeGard® plant activator has a unique mode of action that reduces the incidence and severity of crop diseases. When added to grower IPM crop health programs, LifeGard® adds a layer of protection by activating the plant's immune functions. Plants are primed within 3 hours of application and remain primed for up to 18 days.

Active Ingredient:

Bacillus mycoides isolate J 40%

Key Registered Crops:

Potatoes, grapes, apples, blueberries, tomatoes

FRAC Group:

P 06

Packaging Size:

20 x 454q



LifeGard® has been proven in trials and supporting data to be a product with high efficacy compared to similar competing products. It provides protection from Fireblight, reduces incidence and severity of botrytis, powdery mildew, downy mildew, early blight, late blight, fruit rots, and bacterial spot & speck.

LifeGard® is most effective when used in conjunction or alternation with fungicides having other modes of action such as triazoles, EBDCs, and Qol class fungicides that are registered for the control of labeled diseases.

RATE TABLE

Volume of water (L/ha):	≤ 210	250	300	350	400	500	750	1000
LifeGard® rate (G/ha):	70	83	100	117	133	167	250	333
Approx. Dry Measure (cc):	96	115	138	161	184	229	344	459

LifeGard® is residue exempt, with a short 4-hour re-entry interval, is organic certified and is safe on the environment. Pre-harvest interval is <u>0</u> days.

CROP	TARGET DISEASE	INTERVAL	ADDITIONAL INFORMATION				
Grapes	Downy Mildew		Make first applications 2-3 weeks before bloom and prior to infection. Repeat applications at 7–21-day intervals as part of a rotational program with fungicides labelled for this use. Continue applications every 2 to 4 weeks after fruit set.				
	Powdery Mildew	7-21 days					
	Black Rot	7-14 days	Begin as a preventative spray. Repeat every 7-14 days as part of a rotational program with fungicides labeled for this use.				
	Phomopsis Fruit Rot	7 14 days					
	Fire Blight	7-14 days	Begin applications when green tissue is present, prior to infection period. For suppression of shoot blight, start applications after petal fall and reapply 7-14 days during stem elongation. Do not apply during bloom period (pink stage to petal fall).				
Apples	Apple Scab		Apply starting at petal fall through cover sprays on a 7- to				
	Powdery Mildew		14-day schedule. Apply in an alternating or tank-mix program with labeled fungicides as part of a disease management				
	Sooty Blotch	10-14 days	For summer disease control: Apply starting at petal fall through the cover sprays on a 10- to 14-day schedule Apply in an alternating or tankmix program with labeled fungicides as part of a disease management program.				
	Flyspeck						
Peppers (all types) (field and greenhouse) Tomato (field and greenhouse)	leaf spot		For direct seeded crops: Apply any time following emergence of first true leaf. For transplants: Begin applications immediately before or after transplanting. Transplants may be treated in the greenhouse or				
	Early Blight	7-14 days					
	Late Blight		nursery prior to transplanting in the field. For bacterial leaf spot, early blight, and late blight repeat application at 7-day intervals.				
	Bacterial Speck						
Potatoes (all types)	Early Blight		For early blight and late blight, repeat applications at 7-day intervals. For white mold apply at 7–14-day intervals. Use the shorter interval when high disease pressure is anticipated.				
	Late Blight	7-14 days					
	White Mold		shorter interval when high disease pressure is affilicipated.				
Spinach (field and greenhouse)	Downy Mildew	7-14 days	Begin applications at first true leaf or after thinning. Make preventative applications every 7 days.				
Sugar Beet	Cercospora Leaf Spot	14 days	Apply at 14-day intervals in rotation with fungicides labeled for this use.				
Cannabis & Hemp (commercial use) (grown	Sclerotinia White Mold	7-12 days	Begin as a preventative spray. Apply 7-to-14-day intervals when only LifeGard®WG will be applied. Use shorter interval when high disease pressure is anticipated. When used in biorational program				
indoors or in field)	Grey Mold		with fungicides labeled for this use repeat 7-21 days.				
Always read and follow label instru	ctions.	LifeG	ard® is a registered trademark of Certis Biologicals™				

