

LifeGard™ WG Biological Plant Activator Represents a New Class of Fungicide

LifeGard™ WG is the first foliar-applied biological plant activator available on the market. LifeGard is a naturally occurring bacterium that triggers an induced resistance (IR) response in plants. This IR response reflects a new direction taken by a pesticide market that has rapidly increased its demand for biopesticides, because they offer efficacy, as well as resistance management materials and low residue levels. LifeGard is residue exempt, has a 4-hour REI, can be applied the day of harvest.

The active ingredient of LifeGard is a naturally occurring bacterium (*Bacillus mycoides* isolate J or BmJ) shown by discoverer Prof. Barry Jacobsen, Ph.D. of Montana State University to trigger a plant's natural immune response to pathogenic fungi, bacteria and viruses in the phenomenon known as IR. The BmJ bacterium "switches on" a plant's resistance genes causing a cascade of metabolic responses by the plant to limit infection and the development of disease. While some microbial biofungicides have been reported to also have moderate IR activity, LifeGard is unique in that it works entirely as a microbial IR activator with no direct antagonistic effect on plant pathogens. LifeGard should be applied early, ideally 3–5 days prior to disease development. Application rates range from a low 70 grams to 333 grams per hectare. LifeGard induces the same genetic resistance pathway as the class of chemical IR inducers known as benzothiadiazoles, but for longer periods and with lower risk of phytotoxicity.

LifeGard Should be the First Spray of Your Disease Management Program or Apply 3 to 5 Days Prior to Disease Development

Crop	Target*	Apply
Tomato, Pepper (all types) (greenhouse and field)	Bacterial leaf spot, bacterial speck, early blight, late blight	<i>For direct seeded crops:</i> Apply any time following emergence of first true leaf. <i>For transplants:</i> Begin applications immediately before or after transplanting. Transplants may be treated in the greenhouse or nursery prior to transplanting in the field. For bacterial leaf spot and speck, early blight and late blight, repeat applications at 7-14 day intervals. Use the 7-day interval under high disease pressure.
Potato	Early blight, late blight, white mold	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 under high disease pressure.
Spinach (greenhouse and field)	Downy mildew	Begin applications at first true leaf or after thinning. Make preventative applications every 7 days.
Sugarbeet	Cercospora leaf spot	Apply at 14-day intervals in rotation with labeled fungicides.

*Suppression

RATE TABLE								
Volume of water (L/Ha)	<200	250	300	350	400	500	750	1000
LIFEGARD WG rate (g/Ha)	70	83	100	117	133	167	250	333
Approximate dry measure (cc)	96	115	138	161	184	229	344	459



FRAC P6

LifeGard is a FRAC P6 product, the only fungicide in this category.

Distributed by:



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Always read and carefully follow label instructions.

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