STRAWBERRY - FUNGICIDE EFFICACY - BIOCONTROLS AND NATURAL PRODUCTS

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Fungicide	Active ingredient	Resistance risk (FRAC) ¹	Gray mold	Powdery mildew	Anthr- acnose	Common leaf spot	Rhizopus/ Mucor rot	Phyto- phthora diseases	Angular leaf spot
Actinovate	Streptomyces lydicus WYEC 108	unknown (BM2)	0	2	NL	NL	NL	0	1
Actinovate	potassium sorbate;	(DIVIZ)	U	2	INL	INL	NL	U	1
All Phase	sodium lauryl sulfate	unknown (NC)	ND	4	ND	ND	NL	NL	ND
	Bacillus subtilis								
Aviv, etc. ²	IAB/BS03	unknown (NC)	0	ND	ND	ND	NL	ND	NL
	Aureobasidium pullulans DSM 14940;								
Botector	DSM 14941	unknown (NC)	0	NL	ND	NL	NL	NL	NL
Cinnerate	cinnamon oil	unknown (NC)	0	ND	NL	NL	NL	NL	NL
Copper containing									
fungicides ²	copper	low (M01)	0	0	0	0	0	0	4
Double Nickel	Bacillus amylo- liquefaciens D747	unknown (BM2)	0	2	0	NL	NL	0	1
Howler	Pseudomonas chlororaphis AFS009	unknown (BM2)	0	NL (2)	NL	ND	NL	ND	0
Kaligreen,									
MilStop, etc. ²	potassium bicarbonate	unknown (NC)	NL	3	NL	NL	NL	NL	NL
Microthiol	4.0	low							
Disperss, etc. ²	sulfur	(M2)	NL	4	NL	NL	NL	NL	NL
3.5 D 1 . 2	potassium salts of fatty	1: (20)	2.17		2.17	2.17	2.17	2.17	2.17
M-Pede, etc. ²	acids	medium (28)	NL	2	NL 2	NL	NL	NL	NL
Oso, etc. ²	polyoxin D zinc salt	medium (19)	3	4	3	ND	NL	NL	NL
Oxidate, Perasan, etc. ²	hydrogen peroxide; peroxyacetic acid	unknown (NC)	0	0	NL	ND	NL	NL	2
ProBlad Verde,	Banda de <i>Lupinus</i>								
etc. ²	albus doce	unknown (NC)	0	3	ND	ND	ND	NL	NL
Procidic, etc. ²	citric acid	unknown (NC)	0	NL	NL	NL	NL	0	NL
Rango	cold pressed neem oil	unknown (NC)	2	ND	ND	0	NL	0	NL
Regalia	Reynoutria sachalinensis extract	unknown (P5)	0	2	ND	NL	ND	ND	NL
Serenade ASO,	Bacillus subtilis	unknown (13)	0		TVD	IVE	ND	TVD	112
etc. ²	QST 713	unknown (NC)	0	3	0	NL	NL	NL	NL
	Bacillus pumilis								
Sonata	QST 2808	low (BM02)	NL	3	0	NL	NL	NL	NL
	Bacillus amylo-	unknown							
Stargus	liquefaciens F727	(BM2)	0	ND	ND	NL	NL	NL	NL
	Bacillus amylo-								
Serifel	liquefaciens MBI 600	low (BM02)	0	2	0	ND	NL	0	2
Taegro	Bacillus amylo- liquefaciens FZB24	low (BM02)	0	2	0	NL	NL	ND	NL (2)
	Bacillus subtilis							_	
Theia	AFS032321	low (BM02)	0	2	0	NL	NL	0	NL
Timorex Act	tea tree oil	unknown (BM1)	0	3	ND	NL	0	ND	ND
VEG'LYS, etc. ²	garlic oil	unknown (NC)	0	NL	0	0	NL	0	ND
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Rating: 5 = excellent and consistent, 4 = good and reliable, 3 = moderate and variable, 2 = limited and/or erratic, 1 = minimal and often ineffective, 0 = ineffective, NL = not on label, ND = no data.

⁴ Ratings are a representation of fungicide performance over several years as determined through replicated fungicide performance experiments.





¹ Group numbers are assigned by the Fungicide Resistance Action Committee (FRAC) according to different modes of actions (for more information, see http://www.frac.info/).

² When there are many generic products, "etc." indicates that other products may be available that have the same active ingredient.

³ Efficacy rating determined with fungicide susceptible populations of pathogen.