

Efectividad contra patógenos agrícolas de Virkon H

A summary of independent efficacy data for **Virkon H** against plant pathogens is shown below.

Organism	Disease	Crop	Country	Effective Dilution
<i>Alternaria solani</i>	Early Blight	tomato	Canada	1:200
<i>Botrytis cinerea</i>	Grey Mould	several	Canada	1:200
<i>Botrytis cinerea</i>	Grey Mould	several	New Zealand	1:100
<i>Clavibacter michiganensis michiganensis</i>	Bacterial Canker	tomato	Belgium	1:800
<i>Clavibacter michiganensis michiganensis</i>	Bacterial Canker	tomato	Canada	1:500
<i>Clavibacter michiganensis michiganensis</i>	Bacterial Canker	tomato	Belgium	1:800
<i>Clavibacter michiganensis michiganensis</i>	Bacterial Canker	tomato, pepper	New Zealand	1:250
<i>Clavibacter michiganensis sepedonicus</i>	Bacterial Canker	potato	Finland	1:100
<i>Collectotrichum coccodes</i>	Black Dot Root Rot	tomato	Canada	1:200
<i>Colleotrichum acutatum</i>			New Zealand	1:100
<i>Didymella bryoniae</i>	Gummy Stem Blight	cucumber	Canada	1:200
<i>Didymella bryoniae</i>	Black Stem Rot	cucumber	Finland	1:50
<i>Epicoccum nigrum spores</i>	Grass Fungus	grass	New Zealand	1:200
<i>Erwinia amylovora</i>	Fireblight	apple	New Zealand	1:250
<i>Erwinia carotovora atroseptica</i>	Bacterial Stem Rot	tomato	Finland	1:100
<i>Fusarium moniliforme</i>	Fusarium Leafspot		USA	1:50

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<i>Fusarium oxysporum lycopersici</i>	Fusarium Wilt	tomato	Canada	1:200
<i>Fusarium oxysporum radicis-lycopersici</i>	Fusarium Crown & Root Rot	tomato	Canada	1:200
<i>Fusarium solani</i>	Pepper Fruit and Stem Rot	pepper	Canada	1:500
<i>Fusarium solani</i>	Pepper Fruit and Stem Rot	pepper	Japan	1:400
<i>Fusarium solani</i>	Pepper Fruit and Stem Rot	pepper	New Zealand	1:100
<i>Geotrichum cutaneum</i>			Japan	1:25
<i>Penicillium italicum</i>	Root rot	citrus	Finland	1:100
<i>Penicillium italicum</i>		citrus	New Zealand	1:100
<i>Penicillium oxalicum</i>	Penicillium Stem Rot	cucumber	Canada	1:100
<i>Pepper Mild Mottle Virus</i>	<i>fresh dried leaves and roots</i>	pepper	Holland	1:20
<i>Pepper Mild Mottle Virus</i>	<i>glass</i>	pepper	Holland	1:50
<i>Pepper Mild Mottle Virus</i>	<i>concrete</i>	pepper	Holland	1:20
<i>Pepper Mild Mottle Virus</i>	<i>knives</i>	pepper	Holland	1:50
<i>Phomopsis sclerotinoides</i>	Black Root Rot	cucumber	Canada	1:200
<i>Phomopsis sclerotinoides</i>	Black Root Rot	cucumber	Finland	1:50
<i>Phytophthora cactorum</i>		apples	New Zealand	1:100
<i>Pithomyces chartarum</i>		grass	New Zealand	1:100

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Organism	Disease	Crop	Country	Effective Dilution
<i>Pithomyces chartarum</i> spores		grass	New Zealand	1:400
<i>Pseudomonas syringae</i>	Bacterial Speck	pepper	Canada	1:500
<i>Pseudomonas syringiae</i> <i>syringiae</i>	Bacterial Blast	plums, cherries	New Zealand	1:250
<i>Pseudomonas solanacearum</i>	Brown rot	apples	Belgium	1:800
<i>Pseudomonas solanacearum</i>	Bacterial wilt	potatoes	Belgium	1:800
<i>Pseudomonas viridiflava</i>	Bud Rot	kiwi fruit	New Zealand	1:250
<i>Pyrenochaeta lycopersici</i>	Corky Root Rot	tomato	Canada	1:200
<i>Pythium aphanidermatum</i>	Pythium Damping-off	several	Canada	1:500
<i>Pythium sp</i>	Pythium Damping-off	several	Finland	1:50
<i>Rhizoctonia solani</i>	Rhizoctonia damping off	several	Canada	1:200
<i>Sclerotinia sclerotiorum</i>	White Mould	several	Canada	1:200
<i>Thielaviopsis basicola</i>	Root Rot	tomato	Canada	1:500
<i>Verticillium dahliae</i>	Verticilium Wilt	tomato	Canada	1:500
<i>Verticillium dahliae</i>	Verticilium Wilt		Finland	1:50
<i>Xanthomonas campestris</i>	Bacterial Spot	cabbage	Canada	1:500
<i>Xanthomonas campestris</i>	Bacterial Spot	cabbage	Canada	1:100

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To determine the minimum effective dilution of Virkon H against a range of common greenhouse bacterial and fungal pathogens the following independent work was performed by Agriculture Canada in Harrow, Ontario. The results indicate that for most practical purposes a dilution rate of 1:200 (0.5%) of Virkon H is effective.

	Virkon H dilution	1:400	1:200	1:100
Organism	Disease	Fungus growth	% of check	
<i>Botrytis cinerea</i>	Botrytis Grey Mould	15.7	0.5	0
<i>Didymella bryoniae</i>	Gummy Stem Blight	2.5	0	0
<i>Fusarium oxysporum radicles-lycopersicae</i>	Fusarium Crown and Root Rot	20.4	0	0
<i>Fusarium spp</i>	Fusarium Stem Rot (peppers)	10	0	0
<i>Penicillium oxalicum</i>	Penicillium Stem Rot	29.6	2.7	0
<i>Phomopsis sclerotinoides</i>	Cucumber black root rot	1.3	0	0
<i>Pyrenochaeta lycopersici</i>	Tomato corky root rot	24.4	0	0
<i>Pythium aphanidermatum</i>	Pythium root rot	0	0	0
<i>Sclerotinia sclerotiorum</i>	White mould	30.5	0	0
<i>Alternaria solani</i>	Early Blight	++	-	-
<i>Botrytis cinerea</i>	Gray Mould	0.002	-	-
<i>Clavibacter michiganensis f.sp michiganensis</i>	Bacterial Canker	-	-	-
<i>Colletotrichum coccodes</i>	Black Dot Root Rot	++	-	-

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	Virkon H dilution	1:400	1:200	1:100
<i>Didymella bryoniae</i>	Gummy Stem Blight	0	-	-
<i>F. oxysporum f.sp radicis-lycopersici</i>	Fusarium Crown & Root Rot	++	-	-
<i>F. oxysporum f.sp. lycopersici</i>	Fusarium Wilt	++	-	-
<i>Fusarium solani</i>	Pepper Fruit & Stem Rot	+	-	-
<i>Penicillium oxalicum</i>	Penicillium Stem Rot	++	+	-
<i>Phomopsis sclerotiodes</i>	Black Root Rot	0	-	-
<i>Pseudomonas syringae</i>	Bacterial Speck	-	-	-
<i>Pyrenochaeta lycopersici</i>	Corky Root Rot	++	-	-
<i>Rhizoctonia solani</i>	Pythium Damping off	++	-	-
<i>Sclerotinia sclerotioides</i>	White mould	++	-	-
<i>Verticillium dahliae</i>	Verticillium Wilt	-	-	-
<i>Xanthomonas campestris</i>	Bacterial Spot	-	-	-

+++ growth comparable to check plate

++ growth beyond inoculum, but less than check

+ growth confined to inoculum

- no growth