




We deliver a full line of biological solutions to control pests, prevent disease and improve plant health. For organic and conventional production, our products help you improve yield and grow the highest quality cucumbers.



BioWorks
DIVISION OF BIOFIRST GROUP

CROP GUIDE GREENHOUSE CUCUMBERS

	PEST/DEFICIENCY	CROP STAGE				
		SEED	SEEDLING (3-5 LEAVES)	VEGETATIVE STAGE	FRUIT PRODUCTION STAGE	
DISEASES 	Soilborne Diseases	RootShield® PLUS WP				
	Powdery Mildew		CEASE®, MilStop® SP	MilStop SP + CEASE, PERpose Plus®		
	Downy Mildew					
	<i>Botrytis</i>		CEASE	BotryStop® WP, MilStop + CEASE		
	Gummy Stem Blight		CEASE			
INSECTS / MITES 	Aphids, Whiteflies, Thrips	PRINCIPLE™ WP, Molt-X, SuffOil-X®, EpiShield®				
	Caterpillars	SuffOil-X, Molt-X, PRINCIPLE WP				
	Tarnished Plant Bugs					
	Cucumber Beetles	PRINCIPLE WP, NemaShield® HB, Molt-X				
	Fungus Gnats, Shore Flies	NemaShield, Molt-X				
	Mites	SuffOil-X, EpiShield				
	NUTRITION 	Efficient nutrient use and stress reduction	ON-Gard®			



ABOVE AND BEYOND IS WHERE WE BEGIN

CROP GUIDE GREENHOUSE CUCUMBERS

	PRODUCT	REI, PHI	OMRI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield PLUS ⁺ WP ²	4-hour 0-day	Yes	<i>Pythium, Fusarium, Phytophthora, Rhizoctonia</i> , Damping Off	Drench: 4-8 oz/100 gal	Drench at seeding and reapply prior to transplant. Reapply at 4-6-week intervals.
	MilStop SP	1-hour 0-day	Yes	Powdery Mildew, Downy Mildew, <i>Botrytis</i>	1.25-5.0 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6 qt/100 gal + MilStop SP 1.25-3 lb/100 gal.
	CEASE	4-hour 0-day	Yes	Gummy Stem Blight, <i>Botrytis</i> , Powdery Mildew, Downy Mildew	4-6 qt/100 gal	Foliar application every 3-7 days.
	PERpose Plus ¹	0-1-hour 0-day	Yes	Powdery Mildew, Downy Mildew, <i>Botrytis</i>	1/3-1 fl oz/gal	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.
	BotryStop WP ⁴	4-hour 0-day	Yes	<i>Botrytis</i>	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	PRINCIPLE WP	4-hour 0-day	Yes	Aphids, Thrips, Caterpillars, Tarnished Plant Bug (<i>Lygus</i>), Whiteflies	0.5-2 lb/100 gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
	Molt-X ²	4-hour 0-day	Yes	Plant Bug (<i>Lygus</i>), Whiteflies	8-10 fl oz/100 gal	Foliar spray to glisten on a 7-10-day interval or as needed.
	SuffOil-X	4-hour 0-day	Yes	Mites, Whiteflies, Aphids, Thrips	1-2 gal/100 gal	Foliar application every 7 days. Suppresses powdery mildew.
	EpiShield	N/A	No	Mites, Aphids, Thrips, Whiteflies, Mealybugs	9-12 fl oz/100 gal	Foliar spray to glisten on 5-7-day interval or as needed.
	NemaShield HB	N/A	N/A	Cucumber Beetles	50 million/1000-2000 ft ²	Apply as a drench to the substrate as needed.
	NemaShield	N/A	N/A	Fungus Gnats, Shore Flies	100 million/1100-3400 ft ²	Apply as a drench to the substrate as needed.
	Molt-X ²	4-hour 0-day	Yes	Fungus Gnats, Shore Flies	8 fl oz/100 gal	Apply as a drench.
NUTRITION	ON-Gard (5-0-0) ³	N/A	Yes	Nutrition supplement and stress reduction	1 qt-2 gal/100 gal	Weekly foliar spray: 1 qt in seedling stage to 2 gal in vegetative & fruiting stages. Fog rates: 6.4-11.2 fl oz/3 L water.

Please refer to product labels for complete application instructions. Always read and follow label directions.

¹Not available for use in CA; ²Not available for use in AK; ³Not labeled for use in MT, ND, SD, WY. ⁴BotryStop WP not labeled for use on cucumber in CA

Please refer to product labels bioworksinc.com for fogging application details and rates.

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