



Vegetable Transplants and Herbs

BioWorks delivers a full line of biological solutions to control pests, prevent disease and improve plant health. For organic and conventional production, BioWorks products help you improve yield and grow the highest quality vegetable transplants and herbs.

PEST/DEFICIENCY	CROP STAGE		
	SEED	SEEDLING (3-5 LEAVES)	VEGETATIVE
DISEASES	Soilborne Diseases	RootShield PLUS ⁺ WP, RootShield PLUS ⁺ G	RootShield PLUS ⁺ WP
	Powdery Mildew, Downy Mildew		MilStop SP + CEASE, PERpose Plus
	Botrytis	PERpose Plus	MilStop SP + CEASE, BotryStop
	Bacterial Leaf Spot		PERpose Plus, CEASE
INSECTS / MITES	Aphids, Whiteflies		BotaniGard + Molt-X, SuffOil-X ¹
	Thrips		
	Fungus Gnats, Shore Flies	NemaShield	NemaShield, Molt-X, BotaniGard MAXX
	Mites		SuffOil-X ¹
NUTRITION	Efficient nutrient use and stress reduction	ON-Gard	
	Base fertilizer	Verdanta EcoVita, N-Vita	
	Iron (Fe) deficiency		Verdanta OFE
	Calcium (Ca) deficiency		ON-Gard CALCIUM

	PRODUCT	REI	PHI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield® PLUS ⁺ WP*	4-hour	0-day	Damping Off, Pythium, Fusarium, Phytophthora	Drench: 4-8 oz/100 gal	Drench at seeding.
	RootShield® PLUS ⁺ G*	4-hour	0-day		1.5-3 lb/cu yd	Mix with potting media.
	MilStop® SP*	1-hour	0-day	Powdery Mildew, Downy Mildew, Botrytis	1.25-5 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6 qt/100 gal + MilStop SP 1.25-3.0 lb/100 gal.
	CEASE®*	4-hour	0-day	Bacterial Leaf Spot, Powdery Mildew, Downy Mildew, Botrytis	4-6 qt/100 gal	Foliar application every 3-7 days. Safe for use with young seedlings.
	PERpose Plus®*	0-1-hour	0-day		1/3-1 fl oz/gal Mist: 1:1000-1:5000	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application. Mist: Apply 1:1000 for 7-10 days at seeding, continue 1:5000 into propagation.
	BotryStop®*	4-hour	0-day	Botrytis	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	BotaniGard® MAXX	12-hour	0-day	Whiteflies, Aphids, Thrips	0.5-1 qt/100 gal	Foliar application every 5-10 days.
	BotaniGard® 22WP / Mycotrol®† WPO	4-hour	0-day		0.5-2 lb/100 gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
	BotaniGard® ES / Mycotrol®† ESO ²	4-hour	0-day		0.5-2 qts/100 gal	Foliar application every 5-10 days. For thrips use 1-2 qt/100 gal.
	Molt-X®*	4-hour	0-day		8-10 fl oz/100 gal	For foliar application. In tank mix, use 1/2 rate.
	SuffOil-X®*1	4-hour	0-day		1% v/v	Foliar application every 7-10 days.
	NemaShield®	N/A	N/A	Fungus Gnats, Shore Flies	100-300 million/100 gal	Apply as a drench to the substrate as needed.
	Molt-X®*	4-hour	0-day		8 fl oz/100 gal	Apply as a drench. In tank mix, use 1/2 rate.
	BotaniGard® MAXX	12-hour	0-day		0.5-1 qt/100 gal	Foliar application every 7-10 days to eliminate adults.
	SuffOil-X®*1	4-hour	0-day	Mites	1% v/v	Foliar application every 7 days.
NUTRITION	ON-Gard®* (5-0-0)	N/A	N/A	Nutrition supplement and stress reduction	Drench, sprench, or foliar spray: 1 qt/100 gal	Drench applications at seeding and weekly foliar applications. Fog rates: 6.4-11.2 fl oz/3 L water.
	Verdanta® EcoVita®* (7-5-10)			Base fertilization	1-2 lb/cu yd soil mix 5-8 lb/cu yd soil mix	Low rates: commercial vegetable transplants Label rates: Veg/herbs in packs or small pots
	Verdanta® N-Vita®* (9-4-3)			Iron (Fe) deficiency	1 qt/100 gal	Foliar application as needed.
	Verdanta® OFE (3-0-0 + 3% Fe)			Calcium (Ca) deficiency	16 fl oz/100 gal	Weekly foliar spray to prevent Ca deficiency.

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



* 1 SuffOil-X - Not labeled for use on herbs

† 2 BotaniGard ES/Mycotrol ESO formulations may cause crop injury to greenhouse grown tomatoes.