

Cannabis Crop Protection Guide

BioSafe Systems is a true partner for your grow with accessible service and clean chemistries for all stages of production.



Plant and Soil Health

Disease Control

Insect Control



Seed	Propagation	Vegetative	Early Flower	Late Flower
	TerraGrow® / TerraGrow® Liquid			
	ZeroTol® 2.0			
	OxiPhos®			
	AzaGuard®			
	BioCeres WP / EC			
	CalOx® FT			
	PVent® Microbial WP			

Disease Control

ZeroTol 2.0	Propagation			Vegetative through Late Flower Foliar Spray	
	Cutting Dip	Drench	Algae/Disease Control		
Notes	15 mL/ 1 gallon of water	7-15 mL/ 1 gallon of water	15-37 mL/ 1 gallon of water	Tank-Mix 13 mL/1 gallon of water	Standalone Application 37 mL/1 gallon of water
	Immerse cuttings for 45 seconds. Allow to drain and air dry.	Wait 15 minutes prior to adding products, planting, or watering.	Apply as a light mist, avoid soaking propagation media.	Ensure thorough coverage of plant tissue by using at least 1 gallon of solution per 400 sq. ft. up to 12" crop height.	
	Do not use RO water. For foliar sprays apply early in the day with lights off. Due to potential incompatibility issues, it is not recommended that you tank-mix ZeroTol 2.0 with biopesticides (living organisms including, but not limited to, bacterium, fungus, spores, spent fermented media, virus, protozoan, nematodes). Great tank-mix partner with OxiPhos.				

Disease Control Continued

OxiPhos	Vegetative through Late Flower Foliar Spray		
	Tank-Mix	Standalone Application	
	13 mL/1 gallon of water	1 fl. oz./gallon of water	Add 1 gallon of solution per 400 sq. ft. for each 12" of growth. Apply every 21 days. Great tank-mix partner with ZeroTol 2.0.

Insect Control

AzaGuard	Vegetative and Early Flower Foliar Spray	
	4–6 mL/1 gallon of water	Omit AzaGuard after week 3 in flower. Use as a soil or media drench to treat root aphids and fungus gnats. Do not use any surfactants when using AzaGuard in a tank-mix solution. Use 48–72 hours before a knockdown spray for maximum results.

BioCeres WP	Vegetative and Early Flower Foliar Spray	
	9–12 g/1 gallon of water	Add 1 gallon of solution per 400 sq. ft. for each 12" of growth. Use throughout flower, as needed, to control insect pests. Apply early morning or late afternoon. Great follow-up treatment to AzaGuard.

BioCeres EC	Vegetative and Early Flower Foliar Spray	
	4.5–6 mL/1 gallon of water	Do not tank-mix with fungicides. Repeat applications every 3-10 days. Apply early morning or late afternoon. Great follow-up treatment to AzaGuard. Ideal for spider mite control.

Plant and Soil Health

TerraGrow	Propagation	Soiless Media	Soil Media	Reduce Transplant Shock	Notes
	3 oz./10 gallons of water	0.5 g/1 gallon of water	1 g/1 gallon of water	4-6 oz./10 gallons of water	TerraGrow can be applied with fertilizers (maintain pH of solution at 6–7 for best results). Mix and use solution within 24 hours.
Notes	Drench or immerse media prior to placing cuttings.	Drench on a weekly basis.	Drench on a bi-weekly basis.		

TerraGrow Liquid	Soiless Media	Soil Media	Notes
	0.5 mL/1 gallon of water	2 mL/1 gallon of water	Can be used as a foliar application and in conjunction with fertilizer. Great for automated watering/drip.
Notes	Drench on a weekly basis.	Drench on a bi-weekly basis.	

CalOx FT	Vegetative and Early Flower	
	4 mL/1 gallon of water	Great addition to any foliar spray. Use bi-weekly. Will drastically increase the dispersion of calcium, so feed accordingly.

PVent Microbial WP	Vegetative and Early Flower	
	7–9 g/1 gallon of water	Works great within 24 hours of a ZeroTol 2.0 application. Provides fertilizer and dominant microbes. Improves plant health and vigor. Can be used in all grow environments.