

CUTTINGS • PLUGS • TRANSPLANTS • SIZING UP



Application Timing	Product Choices	Rates	Comments
Soil Media Prep	BioNutrients 8-1-9	Mix 1 -2 packs per 40-100 gallons of water.	Microbe root enhancer.
	BioBlender Media Mix	½ - 1 lb. per cubic yard (270 - 540 grams per square meter)	Adds both beneficial bacteria and organic soil amendments.
At Sticking	Essential® Plus 1-0-1	1 oz per 30 oz water or 4 oz per gal water (30 ml per Liter water)	Drench tray liners or pots after sticking cuttings OR dip basal ends of cuttings for five seconds before sticking.
At Callus Formation (Reapply as needed)	Essential® Plus 1-0-1	4 oz per gal water (30 ml per Liter water)	Re-apply as a drench at callus formation or as needed.
	Companion® Liquid Biological Fungicide	1 tsp per gal water (1 ml per Liter water)	Apply as a drench or directed heavy spray when callus forms. Reapply every 2 - 4 weeks to promote healthy roots.
At Sticking	Essential® Plus 1-0-1 and Companion® Liquid Biological Fungicide	Constant feed: 1 oz each per 100 gal water (8 ml per 100 Liters water)	Inject through overheads on the mist bench for rapid and healthy rooting. Use this rate until ready to transplant.
At Transplant, Sizing Up or Re-Potting	Essential® Plus 1-0-1	2 tsp per gal water or 32 oz per 100 gal water (3 ml per liter water or 250 ml per 100 Liters water)	Apply at transplant, then monthly thereafter. Combats transplant shock, promotes new roots, increases fertilizer uptake.
	Companion® Liquid Biological Fungicide	1 tsp per gal water or 16 oz per 100 gal water (1 ml per liter water or 125 ml per 100 Liters water)	Prevents disease and stimulates root growth. Companion® and Essential® Plus can be combined in one drench. Re-apply every 2 - 4 weeks throughout the life of the plant.

- Use Essential® Plus as an all-natural alternative to chemical hormones like IBA, NAA.
- Essential® Plus is made of: natural rooting hormones, sugar, a natural wetting agent, kelp, Humic Acid, and L-Amino Acids.
- Companion® is EPA registered as a biological fungicide for greenhouses, shadehouses and nurseries, for use on all plugs, vegetables, cutting, herbs and ornamentals.
- Important diseases controlled/suppressed include: Pythium, Fusarium, Phytophthora, Rhizoctonia, and Sclerotinia. It is most effective when used as a preventative.