

CUTTINGS • PLUGS • TRANSPLANTS • SIZING UP

GROWTH PRODUCTS, LTD.

CUTTINGS PROGRAM



Application Timing	Product Choices	Rate	Comments
Soil Media Prep	Companion® Dry Concentrate	1/2 lb. per cubic yard (280 grams per cubic meter)	Mix into any soil media to prevent root rot diseases
	Growers Companion®	1/2 - 1 lb. per cu. yd. (280 - 560 grams per cubic meter)	Adds both beneficial bacteria and organic soil amendments
At Sticking	Essential® Plus 	1/3 - 1 oz per 1 gallon water (3-8 ml per liter of water)	Drench tray liners or pots after sticking cuttings OR dip basal ends of cuttings for five seconds before sticking. Every 7 - 10 days.
At Callus Formation (Reapply as needed)	Essential® Plus 	1-2 oz. per gallon water (8-16 ml per liter of water)	Re-apply every 5-7 days at callus formation. 2-3 applications greatly enhances rooting.
	Companion® Liquid Biological Fungicide	1/3 - 1 oz per 1 gallon water (3-8 ml per liter of water)	Apply as a drench or directed heavy spray when callus forms. Reapply every 2-4 weeks to promote healthy roots. Every 7 - 10 days.
At Sticking	Essential® Plus and Companion® Liquid Biological Fungicide 	Constant feed: 1 oz each per 100 gal water (8 ml per 100 liters of 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 	2 tsp per gal water or 32 oz per 100 gal water (3 ml per liter water or 250 ml per 100 liters of water)	Apply at transplant, then monthly thereafter. Combats transplant shock, promotes new roots, increases fertilizer uptake.
	Companion® Liquid Biological Fungicide	1 tsp per gallon water or 16 oz per 100 gal water (1.3 ml per liter or 125 ml per 100 liters of 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.