



Companion®

Microbial Inoculant

- **Easy To Use Liquid Formulation**
- **Colonize Soil With Beneficial Microorganisms**
- **No Special Handling or Storage**

- **Contains Food Source For Microbes**
- **University Tested On Root Diseases**
- **2 Years+ Shelf Life**

Guaranteed Analysis:

Active Ingredient:

Bacillus subtilis GB03 0.03%
(not less than 5.5×10^{10} CFU* per gal)

Inert Ingredients: 99.97%

Total: 100.00%

* Colony Forming Units

Weight per gallon 9.95 lbs.

General Information

Companion is a concentrate microbial inoculate for the addition of beneficial soil microorganisms. It contains the active ingredient Bacillus subtilis GB03, a naturally occurring soil microbe that protects the root system. The active ingredient GB03 has been used on a broad variety of plant materials and as a seed coating for the past decade. Research at major universities proving the performance of GB03 in promoting a healthy root system. Companion's organic liquid base acts as a food source to help the Bacillus subtilis multiply. It may be used as a drench at the time of seeding and transplanting. Companion is most effective when applied throughout the growing cycle to maintain a healthy population of beneficial microorganisms. Companion can be used in combination with chemical fungicides during disease outbreaks.

Mixing Instructions

Companion is not a suspension and does not need to be agitated. It is compatible with other fertilizers, fungicides and technical materials. Check the labels of other technical materials for their mixing guidelines. Be sure to apply all of tank mix solution within 6 hours to assure viability of spores.

Application Through Irrigation Systems

Direct Siphon: Companion can be siphoned directly from the original container. This can be done with a variable proportioner that can be set to high ratios. This eliminates the need to mix stock concentrates or stir the mixing barrels. For 100 PPM set injector to 1:800.

Use and Rate Recommendations

Injector Ratio	1:100	1:200
Companion® per gallon	16 oz.	32 oz.
Companion® per 10 gal.	160 oz.	320 oz.

Companion® Soil Drench		
Plant Type	Amount of Companion® Per 1 or 100 Gallons	Application Notes
Bedding Plants	Mix 16 fl. oz. with 100 gallons of water	Re-treat at 14 day intervals if additional applications are necessary
Foliage Plants		
Flowers	Mix 1 teaspoon with 1 gallon of water.	
Woody Ornamentals		

Use Companion on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries. It may also be used on ornamentals grown for indoor and outdoor landscaping. Use as a drench during seeding and when transplanting. Apply Companion throughout the plant growth cycle. Use on all types of Bedding Plants, Perennials, Cut Flowers, Plugs, Woody Ornamentals, Nursery Crops, Trees, Foliage Plants and Container Plants. This product may be applied through drip (trickle) irrigation system, fertigation and sprayer systems. Companion is most effective as a soil drench and can be utilized in foliar and/or soil applications, as a soil drench or as a soil surface spray.

Companion® Drench For Bed & Bench Grown Plants		
Soil Depth (inches)	Sq. ft. / 100 gals.	Pints per sq. ft.
3" or less	800	1 pint
4 - 6"	400	2 pints
6 - 12	200	4 pints

Companion® Drench For Container Grown Plants		
Pot Diameter (inches)	Minimum Drench Volume Fl. Oz. / Pot	Number of Pots per 100 Gallons
4"	2	6,400
6"	4	3,200
8"	10	1,280
10"	20	640
12"	30	426

Application Notes

Soil Drench: Mix 16 ounces of Companion with 100 gallons of water. Apply to container grown plants and bed and bench grown plants according to the guidelines below.

Closed Systems for Ebb and Flow and Hydroponics Application:

Mix 1 oz. per 30 gallons of water for closed continuous recirculation systems used in hydroponics growing or ebb and flow in rock wool and peat/perlite mixtures. Be sure to clean mix tank on a weekly basis. Presoak transplants in same solution mix.

Incompatibilities: Do not use with bacteriacides or soil fumigants. Wait seven (7) days to apply Companion after a bactericide or soil fumigant has been used.

To Dispense: A dispensing tap is tucked in the carton. Pull out inner plastic container neck with cap on. Remove cap and immediately screw tap on. To open tap, turn to left. No air will be allowed into container while tap is on. Do not leave open.

Storage and Disposal

Store in a dry place. Keep out of direct sunlight or heat to prevent overheating of liquid. Keep from freezing.

Container Disposal: Do not reuse empty container.

US Patent Pending

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