



Bac-Pack AG

Liquid Plant Amendment

Bac-Pack AG is a natural microbial inoculum that improves plant health and vigor through a symbiosis with plant roots. The rhizobacteria in Bac-Pack AG, used in a disease prevention program, have been shown to reduce the amount of chemical sprays needed for damping-off disease control.

Resistance to Plant Pathogens

Biological control is the reduction of plant pathogens or parasites by using one or more organisms that are natural antagonists. Successful biocontrol utilizes cultural practices and plant selection to create an environment favorable to antagonists and host plant resistance. Mass introduction of beneficial organisms or agents is effective on this basis.

The naturally occurring bacteria strains in Bac-Pack AG grow on plant roots and produce substances that increase the vigor of the treated plants, helping them resist damage by pathogenic fungi and damping-off. This results in a more consistent plant stand and increased yields.

Bac-Pack AG is available as a dry seed treatment or as a liquid, that is applied in the furrow, used as a transplant root dip or applied in a drip irrigation system. Bac-Pack AG is non-polluting and safe for the environment.

BAC-PACK
HELPING THE STRONG
SURVIVE



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Bac-Pack AG

TECHNICAL DATA

PRODUCT DESCRIPTION: Bac-Pack AG liquid consists of selected bacteria strains that colonize plant root systems.

PURPOSE: The symbiotic bacteria in Bac-Pack produce substances that are utilized by the plant for increased vigor and resistance to damage by plant pathogens and damping off disease.

DOSAGE PROGRAM — Annual Crops:

Seedling Nursery Program: Apply as a drench over the seeds in the germination tray, using a drench mix formula of 13 cc of Bac-Pack AG with one liter of water (one pint in 10 gallons of water). Use an estimated 0.5 liters (1 Pint) of the drench mix per tray. Apply the drench mix 2 or 3 times during the seedling nursery stage for the target crop.

Transplant Program: At the time of transplanting the root plug should be treated with Bac-Pack AG as a drench or root dip utilizing a mixture of (or equal to) 13 cc of Bac-Pack AG with one liter of water (one pint in 10 gallons of water).

Post-Transplant Program: Apply Bac-Pack AG as a band immediately over the crop row. The band should be 15 to 46 cm. (6 to 18 inches) wide and may be applied by spray machine or injected through a drip irrigation system. Use a dosage of (or equal to) 6.0 cc / 100 linear meters of row length (one oz. / 500 ft of linear row length).

Frequency:

- In the event that Bac-Pack AG has been applied as a seedling nursery and/or transplant program, then you may make one post-transplant treatment approximately 30 days after transplanting.
- If Bac-Pack AG is NOT utilized in the seedling nursery and/or transplant program, then the recommended frequency of the post-transplant band application is 2 to 3 times, starting as soon as possible after transplanting and repeating treatment every 20 to 30 days.

DOSAGE PROGRAM —

Perennial crops, nurseries, propagation beds, etc.

Nursery Program: Apply as a drench over the seeds in the germination tray or pots, using a drench mix formula of 13 cc of Bac-Pack AG with one liter of water (one pint in 10 gallons of water). Use an estimated 50 cc (1.5 fl oz) of the drench mix per pot. Apply the drench mix 4 or 6 times during the seedling nursery stage for the target crop.

Transplant Program: At the time of transplanting the root plug should be treated with Bac-Pack AG as a drench or root dip utilizing a mixture of (or equal to) 13 cc of Bac-Pack AG with one liter of water (one pint in 10 gallons of water).

Post-Transplant Program: Make a post-transplant treatment approximately 30 days after transplanting and continue with 1 or 2 additional applications per year (for established **plantations** - 2 applications per year). Apply Bac-Pack AG around the plant by spray machine or inject through a drip irrigation system as follows:

By spray machine: Use a mixture of (or equal to) 8.0 cc of Bac-Pack AG with one liter of water (1.0 fl oz in 1 gallon of water) and apply 125 to 160 cc (4 to 5 fl oz) of the spray mixture per plant.

Injected through a drip irrigation system: Apply 1 to 1.25 cc of Bac-Pack AG per plant (0.033 to 0.042 fl oz).



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