



Seed Generator

APPLICATION RATES

Seed Generator is a microbial based product specifically formulated to stimulate seed germination and root initiation and formation. It increases root growth and root architecture. There are 8 strains of highly active beneficial bacteria and one strain of fungi. The bacteria contains only pure microbial cultures. All stages of fermentation use state of the art methodologies under highly controlled quality standards. Each ingredient in the formulation was chosen based on the benefits it provides to the plant seed as well as the synergies it provides to the system as a whole. Seed Generator does not contain any dextrose or any sugars. Applied sugars cause abscisic acid (ABA) to accumulate in seeds. This delays germination and inhibits early seedling development. Abscisic acid is a stress hormone. Secondly, sugar lowers the water potential of the growing media which reduces the likelihood that water will flow to the seed. Seed Generator is for all plant, flower, vegetable and ornamental seeds. Seed Generator can be applied to the seed as a dusting or as a slurry. It can be used as a drench in soils and as an additive in hydroponics.

Compatibility

Seed Generator is best when used by itself. Do not co-apply Seed Generator with pesticides, fungicides, herbicides, insecticides, nematicides or fumigants. These can compromise the integrity of or kill the beneficial organisms. When applied in rotation with pesticides and other agents, allow 5-7 days between application of Seed Generator and these agents. Never apply Seed Generator just prior to a pesticide application. Do not mix the product and store in any tank or container, use all product within 4 hours of preparation. Agitate the tank while adding Seed Generator and stir occasionally during the entire application process. A jar test should be performed when mixing with other inputs to test for physical compatibility. Seed Generator can be mixed with other biostimulant inputs, sugars, humic acids and kelp.

Directions For Use

Each container contains a measuring scoop which is equivalent to 4 grams (0.15 oz.)

1 teaspoon = 0.1 oz. 3 tablespoons = 0.5 oz.

1 scoop = 0.15 oz. 1 cup = 5 oz.

6 scoops = 1.0 oz.

Note: When mixing Seed Generator in water to make a slurry, make sure the product is slowly poured into water and agitated to go into complete solution. During the application process stir occasionally to keep it in solution.

Seed Starter – Dusting Method

Spread seed out on a non-porous tray. Slight sprinkle Seed Generator over the seed. Mix at a rate of 1.0 to 1.5 scoops per pound of seed. Mix to ensure seed is covered with the inoculant. In some cases, the seed may have to be damped slightly to ensure Seed Generator is on the surface of the seed. Immediately plant the seed after dusting.

Seed Starter – Slurry Method

The general rate is 1.0 pounds per 100.0 pounds of seed. Spread seed out on a waterproof tray. Dampen seed with water, preferably non-chlorinated. Shake Seed Generator on the dampened seed. Mix the solution until the seeds are evenly covered with Seed Generator. Allow slurry to dry thoroughly on the coated seed. For best results immediately plant the seeds when the slurry dries.

Amount of Seed	Amount of Water	Amount of Seed Generator
1lb.	0.5 oz	1 scoop, 0.15 oz.
5 lb.	1.0 oz.	5 scoops, 0.75 oz.
10lb.	2.0 oz.	20 scoops, 3.0 oz.
50lb.	10.0 oz.	1 ½ cups, 7.5 – 8.5 oz.

Hydroponic rates -recirculating systems

Seed Generator can be used to maintain root growth. For seedlings, cuttings add 2 scoops to the reservoir for every 10 gallons of water. Run the solution through the circulation system for complete mixing. The amount of product needed for a specific application can be made in a stock solution then slowly pour it in the reservoir that is full of water. This helps to ensure thorough mixing throughout the system. Add 0.1 to 0.3 oz per 10 gallons of water every 7-10 days or when water is added. Top the system off with fresh water between nutrient solutions.

- Monitor nutrient requirements with a conductivity or PPM meter
- Maintain reservoir pH levels between 5.5 and 6.5 for optimum results
- Keep reservoir aerated for optimum results

Soil Application

Seed Generator can be applied with soil prior to planting to improve the soil conditions and promote root initiation, root growth and root formation. Incorporate 3 scoops per 2.0 cubic feet of soil or 0.5 pounds per cubic yard. If amending individual containers mix E-Z Root™ around the plant hole at a rate of 1.0 scoop for a 1-3 gallon container.

Guaranteed Analysis

Total Nitrogen (N)..... 1.0 %

1.0 % Soluble Nitrogen

Available Phosphate (P₂O₅).....4.0 %

Soluble Potash (K₂O).....6.0 %

Calcium (CA).....2.5 %

Sources:

Protein Hydrolysate, Bone Meal, Di-potassium Phosphate, Kelp (*Ascophyllum nodosum*) Sodium Tetraborate Decahydrate

Ingredients

CONTAINS NON PLANT FOOD INGREDIENTS

Active Ingredients

3.0 x 10⁸ CFU/g each of: *Bacillus subtilis*, *Bacillus amyloliquefaciens*, *Bacillus licheniformis*, *Bacillus megaterium*

3.0 x 10⁸ CFU/g each of: *Pseudomonas fluorescens* *Pseudomonas putida*

3.0 x 10⁸ CFU/g each of: *Azospirillum amazonense*, *Azospirillum lipoferum*

5.0 x 10⁷ CFU/g of *Trichoderma harzianum*

Inert Ingredients

11.0 % Hydrated Sodium Calcium Aluminosilicate, 15.0 % Kelp (Ascophyllum nodosum), 5.00 % Hydrolyzed Soy Protein, 6.00 % Humic Acid (derived from Leonardite), 3.0 % Brewer's Yeast Extract, 0.5% bone meal, 0.5% kelp (source for potassium)

Other ingredients 32.0%

Information regarding contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.html>

Storage/Handling.

Do not store any mixed product in tanks/sprayers. Store any unused product in the original container securely closed in a cool dry location out of direct sunlight. **KEEP OUT OF REACH OF CHILDREN**



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