

# BioSphere Big Green HC

## *Technical Specifications and Application Instructions*

### **Product Description:**

BioSphere Big Green HC is a complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. The combination of these ingredients will make indigenous beneficial microbes explode in numbers in the soil. This will improve organic matter in the soil, growth patterns in plants, and fruit quality. In addition, BioSphere Big Green HC includes components that will excite mitochondrial action, thereby rebuilding cell tissues and producing stronger and healthier roots. BioSphere Big Green HC will also increase flowering and cannabinoids in cannabis plants. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants.

### **Product Specifications:**

|                                     |  |
|-------------------------------------|--|
| Bacillus Mucilaginosus              | 4.7x10 <sup>7</sup> cfu/g                            |
| Bacillus Subtilis                   | 2.2x10 <sup>7</sup> cfu/g                            |
| Bacillus Megaterium                 | 1.1x10 <sup>7</sup> cfu/g                            |
| Bacillus Licheniformis              | 1.1x10 <sup>7</sup> cfu/g                            |
| Bacillus Simplex                    | 1.1x10 <sup>7</sup> cfu/g                            |
| Trichoderma Harzianum               | 1.0x10 <sup>8</sup> cfu/g                            |
| Trichoderma Viride                  | 1.0x10 <sup>8</sup> cfu/g                            |
| Glomus Intraradices Endomycorrhizae | 56 propagules/g                                      |
| Humic Acid:                         | 14%  |
| Fulvic Acid:                        | 4%   |
| Appearance:                         | Fine gray powder                                     |
| Solubility:                         | 100% in water (some powder may remain in Suspension) |

### **Benefits:**

1. Increases mitochondrial action.
2. Stimulates cell rebuilding.
3. Improves plants' ability to stave off disease.
4. Increases flowering.
5. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
6. Stimulates the growth and reproduction of indigenous microorganisms.
7. Invigorates root growth.
8. Builds higher protein and sugar levels in plants.
9. Improves photosynthetic performance.
10. Helps to break up soil compaction

11. Enhances resistance to drought, pests, and disease.
12. Excellent for organic applications.

**Directions for Use:**Liquid Mixing Instructions:

1. Add 482 grams (17 oz) of BioSphere Big Green HC to every 379 Litre (100 gallons) of water or other liquid fertilizers. It is recommended that it be pre-mixed into a slurry in a pail prior to adding to the tank.
2. Charge tank with water and/or other liquid fertilizers.
3. Add pre-mixed BioSphere Big Green HC slurry to the tank.
4. Top tank with water to disperse BioSphere Big Green HC throughout tank to match 379 Litres (100 gallons) of liquid for every 482 grams (17 oz) of BioSphere Big Green HC.
5. Apply directly after adding to the tank.
6. Refer to below application methods for application rates.

Note: Avoid mixing biocides in the tank with BioSphere Big Green HC as it may reduce viable microbial counts at the time of application.

Broadcast Spray (outdoor/row crop application):

1. Refer to above liquid mixing instructions for preparation of product.
2. Apply product at a rate of 120 grams (4.25 oz) to 240 grams (8.5 oz) dry weight measure of BioSphere Big Green HC per acre. This is equivalent to a rate of 95 Litres (25 gallon) to 190 Litres (50 gallons) of liquid mix per acre based on above liquid mixing instructions.

Soil Drench when applying as a standalone product:

1. Refer to above liquid mixing instructions for preparation of product.
2. Apply liquid mix generously to coat all plant surfaces and properly soak soil around the root zone of each plant.

Root Dip Application:

1. Refer to above liquid mixing instructions for preparation of product.
2. Dip roots and/or full plant into BioSphere Big Green HC solution. Make sure all surfaces are fully coated before transplanting to a soil or soil-less medium.

Dry Fertilizer Application:

1. Mix measured quantity of BioSphere Big Green HC into a small amount of water and mix into a slurry. Be sure to keep the water to a minimum in order to minimize the liquid applied to a dry granular fertilizer.
2. Begin tumbling granular fertilizer to which you wish to add BioSphere Big Green HC.



3. Slowly add BioSphere Big Green HC slurry as the granular fertilizer tumbles. Add at a rate consistent with the intended spread rate (refer to above spread rates).
4. Make sure completed granular fertilizer with BioSphere Big Green HC attached is fully dry and is not tacky to the touch before applying through a spreader.