



# BioSphere AgriTech Coffee

## *Technical Specifications and Application Instructions*

### **Product Description:**

BioSphere AgriTech Coffee is a concentrated 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. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants. BioSphere AgriTech Coffee is double the microbial concentration of Biosphere AgriTech SP, making it a better fit when applying in-furrow on row crops and seed inoculation applications where moisture needs to be reduced when applying. Foliar applications during the growing season are recommended to boost plant vitality.

### **Product Specifications:**

Bacillus Mucilaginosus	5.6x10 <sup>10</sup> cfu/Lb
Bacillus Subtilis	3.2x10 <sup>10</sup> cfu/Lb
Bacillus Megaterium	1.6x10 <sup>10</sup> cfu/Lb
Bacillus Licheniformis	1.6x10 <sup>10</sup> cfu/Lb
Bacillus Simplex	1.6x10 <sup>10</sup> cfu/Lb
Glomus Intraradices Endomycorrhizae	50,000 propagules/Lb
Amino Acid	14%
Appearance	Fine Tan Powder
Solubility	100% in water (some powder may remain in Suspension)

### **Benefits:**

1. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
2. Stimulates the growth and reproduction of indigenous microorganisms.
3. Invigorates root growth.
4. Builds higher protein and sugar levels in plants.
5. Improves photosynthetic performance.
6. Helps to break up soil compaction
7. Enhances resistance to drought, pests, and disease.
8. Excellent for organic applications.

**Directions for Use:****Liquid Application:**

1. Add 120 to 240 Millilitres of water to each 1 weight measured ounce of BioSphere AgriTech Coffee in a pail and agitate until powder goes into full suspension.
2. Add water and other liquid fertilizers to tank as directed.
3. Add pre-mixed BioSphere AgriTech Coffee solution to the tank.
4. Top tank with water to disperse BioSphere AgriTech Coffee throughout tank.
5. Apply directly after adding to the tank.

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

**Dry Application:**

1. Mix measured quantity of BioSphere AgriTech Coffee into a small amount of water and mix into a slurry.
2. Add slurry to dry fertilizers and tumble thoroughly to evenly disperse the slurry.
3. Make sure product is not tacky to the touch before applying through a spreader.
4. Commercial applications available upon Request. Seed & Fertiliser Coating Tech.

**Recommended Application Rates:****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 to 240 grams dry weight measure of BioSphere AgriTech Coffee per acre. This is equivalent to a rate of 95 to 190 Litres 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.

**Row Crop Agriculture:**

1. In-Furrow: 60g per hectare
2. Broadcast: 120g per hectare
3. Application rates can vary slightly based on crop types and soil conditions.
4. Acidic soils may require additional applications – Coffee plants recommended – 3 applications
5. Soil Acidity may migrate to a more neutral position over several years – this will not affect the plants' ability to uptake the required nutrients.
6. Higher altitude may require 15% greater dilutions ration.