



BioSphere AgriTech Pro-B+

Technical Specifications and Application Instructions

Product Description:

BioSphere AgriTech Pro-B+ 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.

With the addition of Bradyrhizobium Japonicum as a Nitrogen fixation component specific to Legumes, while improving vegetative growth and protein content, enhances yield where native rhizobia populations are low or ineffective, plus the increase in Nodule mass and number increases while optimizing pH in the soil. With the addition of Paenibacillus Polymyxa a plant growth promoting rhizobacterium (PGRP) contributes to phosphate solubilization, improves cytokinin activity and potassium mobilization all of the above leads to enhanced root hair proliferation, improved root architecture including increased total nodules.

There are no fillers. 100% of the ingredients have an active purpose for your soil and plants. BioSphere AgriTech Pro-B+ is double the microbial concentration of Biosphere AgriTech SP (Soluble Powder), making it a better fit when applying in-furrow on row crops and seed inoculation.

Product Specifications:

Bacillus Mucilaginosus	1.3x10 ⁸ cfu/g
Bacillus Subtilis	8.0x10 ⁷ cfu/g
Bacillus Megaterium	4.0x10 ⁷ cfu/g
Bacillus Licheniformis	4.0x10 ⁷ cfu/g
Bacillus Simplex	4.0x10 ⁷ cfu/g
Glomus Intraradices Endomycorrhizae	112 propagules/g
Bradyrhizobium Japonicum	190,000,000 cfu/g
Paenibacillus Polymyxa	300,000,000 cfu/g
Amino Acids:	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. Increases root mass density and nodulation
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
9. pH normalization
10. Better soil moisture retention
11. Quicker Seed Germination

Directions for Use:

Liquid Application:

1. Add 120 to 240 Milliliters of water to each 1 weight measured ounce (28.35 grams) of BioSphere AgriTech Pro-B+ 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 Pro-B+ solution to the tank.
4. Top tank with water to disperse product throughout tank.
5. Apply directly after adding to the tank.

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

Dry Application:

1. Mix measured quantity of BioSphere AgriTech Pro-B+ 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.

Recommended Application Rates:

Row Crop Agriculture:

In-Furrow: 60g per hectare

Broadcast: 120g per hectare

Application rates can vary greatly based on soil needs and conditions. Perform liquid BioSphere AgriTech Pro-B+ application every 4 to 6 weeks after initial seeding or during regular fertilization schedule.

Horticultural & Ornamentals:

120 to 240 g per hectare

Application rates can vary greatly dependant upon soil conditions. Apply every 4 to 6 weeks first season.

Seedlings, New Transplanting, Hydroseed:

120 to 240 g per hectare

Application rates can vary greatly based on soil needs and conditions. Perform liquid BioSphere AgriTech Pro-B+ application every 4 to 6 weeks after initial seeding. Or as directed by Agronomist