



# BioSphere AgriTech-D Nemo

## *Technical Specifications and Application Instructions*

### **Product Description:**

BioSphere AgriTech-D NEMO is a complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. Its purpose is to control pathogenic nematode populations in the soil to protect root systems. However, BioSphere AgriTech-D NEMO will do much more. 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 AgriTech-D NEMO includes components that will excite mitochondrial action, thereby rebuilding cell tissues and producing stronger and healthier roots. BioSphere AgriTech-D NEMO will also increase flowering in cannabis plants. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants success.

### **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
Pseudomonas Fluorescens	4.5x10 <sup>7</sup> cfu/g
Lactobacillus Acidophilus	1.8x10 <sup>9</sup> cfu/g
Glomus Intraradices Endomycorhizae	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. Controls nematode populations through multiple modes of action.
2. Increases mitochondrial action. Mitochondrial activity is crucial for the survival and proper functioning of cells. They are the “Powerhouse of the plant cell” due to their role in generating ATP, the energy currency of the cell. Mitochondria also plays a significant role in cell signaling involved in maintaining the cell cycle and growth.
3. Stimulates cell rebuilding.
4. Improves plants’ ability to stave off disease.
5. Increases flowering.
6. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
7. Stimulates the growth and reproduction of indigenous microorganisms.
8. Invigorates root growth.
9. Builds higher protein and sugar levels in plants.
10. Improves photosynthetic performance.



11. Helps to break up soil compaction
12. Enhances resistance to drought, pests, and disease.
13. Excellent for organic applications.

#### **Directions for Use:**

##### Liquid Mixing Instructions:

1. Add 480 grams of BioSphere AgriTech-D Nemo to every 380 litres 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 AgriTech-D NEMO slurry to the tank.
4. Top tank with water to disperse BioSphere AgriTech-D NEMO throughout tank to match 380 Litres of liquid for every .50 Kilogram of BioSphere AgriTech-D NEMO.
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 AgriTech-D NEMO 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 to 240 grams dry weight measure of BioSphere AgriTech-D NEMO 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.

##### Root Dip Application:

1. Refer to above liquid mixing instructions for preparation of product.
2. Dip roots and/or full plant into BioSphere AgriTech-D NEMO 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 AgriTech-D NEMO 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 AgriTech-D NEMO.
3. Slowly add BioSphere AgriTech-D NEMO 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 AgriTech-D NEMO attached is fully dry and is not tacky to the touch before applying through a spreader.