

# Sporos

## Seed Inoculant



Sporos is a cutting-edge seed inoculant designed to revolutionize your plant cultivation process. Developed by leveraging the latest advancements in agricultural science, Sporos is a highly effective product meant to be applied to plant seeds before planting, ensuring superior growth and vitality.

### **Features and Benefits**

- **Cutting-edge seed inoculant:** Sporos utilizes the latest advancements in agricultural science to revolutionize your plant cultivation process.
- **Bacterial soil inoculants provide a unique function of conditioning the soil by making nutrients in the soil more bioavailable.** Bacillus bacteria produce a wide array of extracellular enzymes which can help break down plant waste and nutrients in the soil to more bioavailable forms. Bacillus ability to solubilize many forms of insoluble nutrients and can enhance the uptake of necessary nutrients by increasing the overall level of plant available nutrients in soil.
- **Promotes superior growth and vitality:** Applied to plant seeds prior to planting, Sporos ensures optimal plant development, resulting in increased yields and improved crop quality.
- **Establishes harmonious ecosystem balance:** By harnessing the power of beneficial bacteria, Sporos creates a balanced environment around your plants, which is particularly beneficial in challenging soil conditions.
- **Sporos encourages the colonization of rhizobacteria within and around the root zone, leading to improved nutrient absorption and unlocking the full potential of your crops.**
- **Boosts plant resilience to stress:** With Sporos, plants develop an increased tolerance to abiotic stressors, allowing them to thrive even in challenging environmental conditions.
- **Fosters robust root development:** Sporos minimizes transplant shock and promotes strong root structure and development, ensuring healthier, more productive plants.
- **Optimizes nutrient uptake:** Sporos helps reduce the amount of fertilizers needed, resulting in cost savings, while also preventing residual build-up in the soil.

# Sporos



- *Bacillus amyloliquefaciens* is a bacterium active in the soil root zone. They are considered a growth-promoting rhizobacteria and have the ability to quickly colonize roots.
- Promote growth of roots expands and multiplies.
- Improve soil conditions and nutrient availability.
- *Bacillus licheniformis* can also improve seed germination rate and seedling protection rate, to prevent the genetic disease of the seed itself, improve crop survival rate and promote root growth. And it can also help improve soil aggregate structure, improve soil, improve soil water storage, storage and ground temperature, ease the obstacle of stubble. And promote the decomposition of organic matter in the soil into humus, greatly improve soil fertility.
- Improve fertilizer efficiency.
- Ability to solubilize phosphate and increase iron availability in the soil.
- *Bacillus subtilis* can stimulate plant growth and easily adaptation in various environmental conditions, it's widely used in agriculture. *B. subtilis* can produce and release beneficial natural substances such as auxins, cytokinins, and gibberellins to promote plant growth. *B. subtilis* also can be used bio fertilizer, increase crop growth & yields.
- *Bacillus megaterium* for their enhanced ability to solubilize phosphate and potassium.

## Application Guidelines

- Applications vary based on seed size and planting method.
- Most plant species benefit from a light coating of Sporos prior to planting
- Apply 8 ounces or more per 100 pounds of seed for thorough and even seed coating.
- Shake well before use to ensure uniform distribution of Sporos.
- Suitable for various application methods
- Follow the recommended application rates. Refer to the product's instructions for specific guidelines on the amount and frequency of Sporos application.

## Microbial Concentration

- *Bacillus subtilis* >  $5.2 \times 10^7$  cfu/mL
- *Bacillus amyloliquefaciens* >  $5.2 \times 10^7$  cfu/mL
- *Bacillus megaterium* >  $5.2 \times 10^7$  cfu/mL
- *Bacillus licheniformis* >  $5.2 \times 10^7$  cfu/mL
- *Bacillus pumilis* >  $5.2 \times 10^7$  cfu/mL

Total bacterial concentration: >  $2.6 \times 10^8$  cfu/mL  
Greater than 1 Trillion Per Gallon

## Storage & Handling

- Store Sporos in a cool, dry place to preserve its quality and efficacy.
- Keep Sporos away from direct sunlight to prevent degradation.
- Avoid exposing Sporos to extreme temperatures, as it can impact the product's effectiveness
- Ensure proper sealing of the Sporos container to prevent moisture ingress and maintain product freshness.
- Shake well before use to ensure uniform distribution of Sporos.