

ABOUT AZOSPIRILLUM

Azospirillum is a beneficial bacterium that naturally enriches the soil by fixing atmospheric nitrogen in the rhizosphere of non-leguminous crops. It helps to enrich soil fertility promotes root development, and improves overall plant growth.

APPLICATION METHODS

Spore Count CFU 1×10^{10} (or) colony count

Seedling Dip:

Dip roots of transplants into the bacterial slurry for 5-10 minutes prior to planting.

Soil Application:

Broadcast 5-7 kg per hectare mixed with farmyard manure (FYM) or compost

BENEFITS

- ✓ Fixes 20–40 kg per hectare of Nitrogen (N) natural
- ✓ Improves root growth and seedling vigor.
- ✓ Enhances nutrient and water absorption.
- ✓ Increases crop yield and soil fertility.
- ✓ Reduces dependence on chemical nitrogen fertilizers.
- ✓ Eco-friendly and suitable for sustainable farming.

AZOSPIRILLUM

BIO FERTILIZER FOR NITROGEN FIXATION



RECOMMENDED CROPS



CEREALS



MILLETS



OILSEEDS



COTTON



MAIZE



SUGARCANE



SORGHUM



ENHANCES
YIELD



STRONGER
ROOTS



NATURAL
NITROGEN FIXATION



IMPROVES
NUTRIENT
UPTAKE



ECO FRIENDLY &
SUSTAINABLE

Manufactured & Marketed by :
SIRUSTI BIO & ORGANIC FERTILIZER
114/2A ST-1, Sathy Road, Annur,
Coimbatore, Tamil Nadu 641653
sirustiorganicfertilizer@gmail.com
9585742299 www.sirusti.in



1. NUTRIENT SOLUBILIZATION

Converts insoluble inorganic phosphorus into soluble absorbable orthophosphates, making nutrients readily available for plants.



2. ROOT ENHANCEMENT

Produces phytohormones like Indole Acetic Acid (IAA) and gibberellins, driving vigorous root development and nutrient uptake.



3. YIELD INCREASE

Boosts overall agricultural productivity typically by 10% to 20%, ensuring healthier crops and better returns.

APPLICATION METHODS

1. SEED TREATMENT



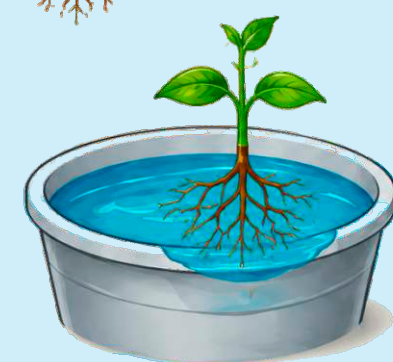
Mix 100-200 grams of bacterial inoculant with water and coat seeds before sowing.



2. ROOT DIPPING



Dip seedling roots in a mixture of 1kg of inoculant in 10-15 liters of water for 5 minutes before transplanting.



3. SOIL APPLICATION



Blend 3-5kg per acre with 50kg of farmyard manure and broadcast directly into the field.



BENEFITS

- ✓ Eco-friendly & non Toxic
- ✓ Improves Soil fertility naturally
- ✓ Reduces dependency on chemical fertilizer
- ✓ Enhances nutrient use efficiency
- ✓ Safe for environment, human & animals

GOOD FOR SOIL
GOOD FOR LIFE

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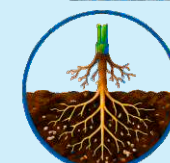


PASPO BACTERIA

PHOSPHATE SOLUBILIZING BACTERIA (PSB)

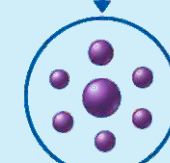


HOW IT WORKS



Colonization

Paspo Bacteria colonize the rhizosphere (root zone) of plants.



Organic Acid Production

Lactic & Gluconic acid



Fixing Nitrogen

Certain Strains can also help to fix atmospheric nitrogen & solubilize sulfur about 90% total phosphorus

Paspo Bacteria, widely known as Phosphate Solubilizing Bacteria (PSB) (e.g., *Bacillus megaterium*), is an eco-friendly biofertilizer. Its primary use in agriculture is converting locked, insoluble soil phosphates into plant-usable forms. By producing organic acids, it significantly improves crop yields while reducing reliance on chemical fertilizers.



ENHANCES
ROOT GROWTH



IMPROVES
SOIL HEALTH



INCREASES
NUTRIENT UPTAKE



BOOSTS
CROP YIELDS



SUSTAINABLE
AGRICULTURE

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BEAUVERIA

Bassiana

Natural Bio-Insecticide

Beauveria bassiana is a naturally occurring, entomopathogenic fungus used globally in agriculture as a potent biological insecticide. It controls harmful insect pests without leaving chemical residues. Its spores attach to a target pest, germinate, and penetrate the insect's body, causing fatal internal colonization.

AGRICULTURAL USES



TARGET INSECT:

It manages a broad spectrum of destructive agricultural pests, including Aphids, Jassids, whiteflies, Thrips, mites, Mealybugs, Leaf folder, American bollworm & Shootand Fruit borer



TARGET CROPS:

Paddy, Chilli, Tomato, Cotton Banana, Papaya, Horticulture Crops & Floricultural Plantation



INTEGRATED PEST MANAGEMENT (IPM):

It allows farmers to reduce their reliance on synthetic chemicals while effectively combating pest resistance

APPLICATION & DOSE



FOLIAR SPRAY 7-10ml / Lit CFU 1 x10⁹

Liquid or powder formulations are mixed with water and sprayed directly onto the leaves and stems where pests feed.



SOIL DRENCHING:

It can be applied via drip systems or mixed with organic manure to target soil-dwelling pests and root-feeding larvae.



WHY CHOOSE BEAUVERIA BASSIANA

- Naturally occurring and eco-friendly
- Effective against a wide range of pests
- No harmful residue on crops
- Compatible with Integrated Pest Management (IPM)
- Supports organic and sustainable agriculture
- Reduces pest resistance development



KEEPS AWAY FROM INSECTS

WHITEFLIES, APHIDS, THRIPS, MEALYBUGS, BEETLES, WEEVILS, AND VARIOUS CATERPILLARS.

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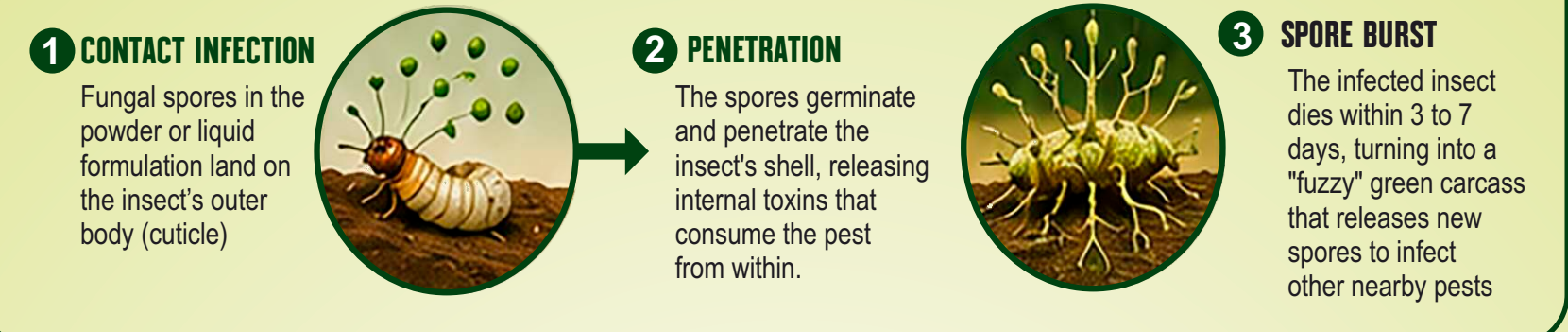
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Metarhizium anisopliae is a highly effective, naturally occurring entomopathogenic fungus used in agriculture as a sustainable bio-insecticide. It naturally targets and eliminates economically destructive pests like root grubs, white grubs, termites, beetles, thrips, and aphids without leaving toxic chemical residues on crops.



AGRICULTURAL USES

- 

1. SOIL PEST MANAGEMENT
Widely used in the soil to eradicate root-damaging insects like white grubs, root grubs, and termites. Ideal for crops like sugarcane, groundnut, soybean, and potatoes.
- 

2. FOLIAR APPLICATION
Sprayed directly onto leaves and stems to suppress sucking and boring pests such as aphids, thrips, whiteflies, and mealybugs.
- 

3. LOCUST AND GRASSHOPPER CONTROL
Specific strains (often marketed as Green Muscle) are used globally to control massive grasshopper and locust swarms in an environmentally safe manner.

BENEFITS FOR FARMERS

- 

ORGANIC & SUSTAINABLE
Fully compliant with standards for organic farming and perfect for export-quality agricultural produce
- 

LONG-LASTING
Unlike many chemical pesticides, Metarhizium spores can persist in the soil for extended periods, offering continuous biological control.
- 

PREVENTS RESISTANCE
Insects cannot develop an immunity to biological fungal attacks in the same way they do with synthetic chemicals.
- 

SAFE FOR ENVIRONMENT
Non-toxic to humans, animals, beneficial insects (bees, earthworm), and plants

Standard Application Guidelines

- 

Soil Drenching / Application:
 - Mix 3–5 kg of powder (or 1–2 litres of liquid concentrate) per acre.
 - This is often combined with organic manure or farmyard manure (FYM) and applied directly to the soil.
- 

FOLIAR SPRAY
 - Mix roughly 5–10 grams or ml per litre of water
 - Spray during late evening hours to protect the fungal spores from harsh UV sunlight.
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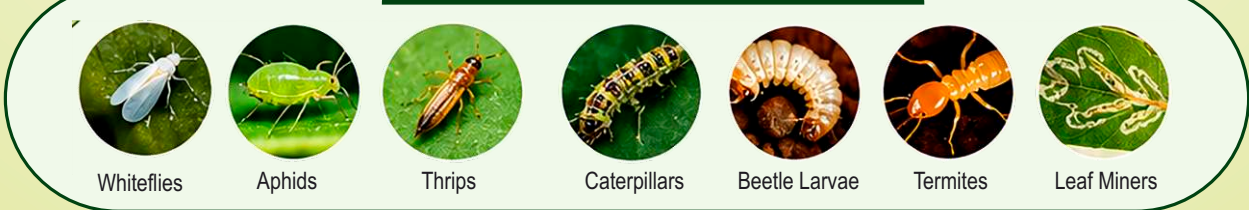
OPTIMUM CONDITIONS
 - The fungus thrives best in moist soil and high humidity.
 - The rainy season or well-irrigated fields ideal for its application

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ORGANIC FERTILIZER

METARISM
METARHIZIUM ANISOPLIAE
Natural Bio-Insecticide



CONTROLS A WIDE RANGE OF PESTS



- ◆ Nature Fungus
- ◆ Farmer's Strength
- ◆ Future's Protection

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Pseudomonas fluorescens is a beneficial soil bacterium used in agriculture as a plant growth-promoting rhizobacteria (PGPR) and bio-fungicide. It naturally enhances crop resilience, mobilizes vital soil nutrients, and acts as an eco-friendly biological control agent to suppress harmful plant pathogens without chemical residues.

AGRICULTURAL USES

BIOCONTROL OF PATHOGENS

Suppresses root-rot, wilt, and damping-off diseases caused by fungi and bacteria (e.g., *Fusarium*, *Pythium*, *Rhizoctonia*, and *Xanthomonas*). It achieves this by producing antibiotics (like phenazines) and lytic enzymes that destroy pathogen cell walls



NUTRIENT SOLUBILIZATION:

Produces organic acids that solubilize insoluble phosphorus and potassium into accessible plant forms.



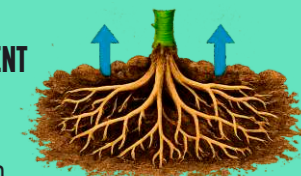
SIDEROPHORE PRODUCTION

Secretes iron-chelating molecules (siderophores) that bind available soil iron, depriving harmful pathogens of the iron they need to thrive while supplying crops



GROWTH HORMONES & ROOT DEVELOPMENT

Synthesizes auxins and other phytohormones that stimulate robust root growth, enabling better absorption of water and nutrients



INDUCED SYSTEMIC RESISTANCE (ISR)

Colonizes the root zone and primes the plant's natural immune system, making crops more resilient to future biological and environmental stresses



COMMON APPLICATION METHODS

SEED TREATMENT

Mix 10g of powder formulation per kilogram of seeds before sowing to protect against soil-borne diseases during early germination.



ROOT / SEEDLING DIP

Soak seedling roots in a mixture of 100g of *P. fluorescens* per 10 liters of water for 30 minutes before transplanting to ensure strong root establishment.



SOIL DRENCHING & APPLICATION:

Mix 2 to 2.5 kg of product per acre with farmyard manure or compost and apply directly to the soil to establish a healthy microbial presence in the root zone.



FOLIAR SPRAY

Spray a mixture of 5g per liter of water to suppress aerial fungal pathogens on the plant's leaves and stems



Healthy Soil
Healthy Plants
Higher Yields

PSEUDOMONAS FLUORESCENS

*Plant growth-promoting rhizobacteria (PGPR)
bio-fungicide, nutrient mobilizer Eco-friendly*

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CONTROLS MAJOR SOIL-BORNE DISEASES



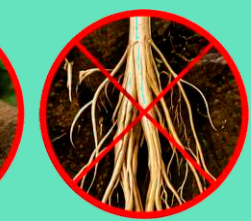
ROOT ROT



WILT



DAMPING-OFF



STEM ROT

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Trichoderma viride is a beneficial, naturally occurring fungus widely used in agriculture as a potent bio-fungicide, bio-fertilizer, and plant growth promoter. It primarily protects crops against soil-borne diseases, enhances root development, and improves soil fertility, making it a cornerstone of sustainable and organic farming

AGRICULTURAL USES

1. BIOCONTROL OF FUNGAL DISEASES

Trichoderma viride acts as a natural antagonist to harmful, soil-borne plant pathogens. It prevents diseases like root rot, damping-off, wilt, and stem rot by coiling around, feeding on, and inhibiting the growth of pathogens like Pythium, Rhizoctonia, and Fusarium.



2. PLANT GROWTH PROMOTION

It establishes a beneficial relationship with plant roots, releasing enzymes that promote robust root development. This expanded root system increases the plant's capacity to absorb water and essential micro nutrients.



3. NUTRIENT MOBILIZATION

The fungus breaks down complex organic matter and converts insoluble phosphates into accessible forms, functioning as a bio-fertilizer that improves overall soil health.



4. INDUCED SYSTEMIC RESISTANCE (ISR)

It triggers the plant's natural defense mechanisms, making crops more resilient against environmental stresses, pests, and systemic foliar diseases like powdery mildew.



STANDARD APPLICATION METHODS

SEED TREATMENT

Mix 6 to 10 grams of Trichoderma powder per kilogram of seeds before sowing to protect emerging seedlings from early-stage infections.



ROOT/SEEDLING DIP

Soak the roots of seedlings (such as paddy, vegetables, or fruit crops) for 10–20 minutes in a mixture of 10 grams of Trichoderma per liter of water before transplanting to prevent transplant shock and root rot.



SOIL DRENCHING & AMENDMENT

Mix 5 to 10 grams per liter of water and apply directly to the soil/root zone, or blend 1 to 2 kilograms with a ton of well-rotted Farm Yard Manure (FYM) to enrich the soil before planting



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TRICHODERMA VIRIDE

BIO-FUNGICIDE, BIO-FERTILIZER, ROOT GROWTH PROMOTER
CFU 2×10^9 / ml

SUITABLE FOR ALL CROPS



CEREALS



PULSES



VEGETABLES



FRUITS



OILSEEDS



SPICES

WHY CHOOSE TRICHODERMA VIRIDE?

- ✓ Environmentally safe and non-toxic
- ✓ Reduces chemical fungicide dependency
- ✓ Improves soil structure and fertility
- ✓ Enhances crop yield and quality
- ✓ Ideal for organic and sustainable farming

CONTROLS MAJOR SOIL-BORNE DISEASES



WILT, ROOT ROT THROUGH COMPETITION, ANTIBIOTIC & PARASITISM



POWERFUL PROTECTION
FROM THE ROOT ZONE

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DISEASE CONTROL (BIO-FUNGICIDE)

Pathogen Suppression

It acts as a bio-fungicide, naturally controlling diseases like powdery mildew, downy mildew, blight, and root rots. It fights these pathogens through competitive exclusion (outcompeting them for space and nutrients) and by producing natural antibiotics.

Induced Systemic Resistance (ISR)

It triggers the plant's own internal defense mechanisms, making the crop more resilient to future bacterial and fungal attacks

PLANT GROWTH PROMOTION

Nutrient Solubilization

It converts insoluble soil nutrients (like bound phosphorus and potassium) into easily absorbable forms for crops.

Root Development:

It secretes active plant hormones, such as auxins, which stimulate rapid root growth and improve overall nutrient and water uptake.

STANDARD APPLICATION METHODS



SEED TREATMENT

Mix 6 to 10 grams of Trichoderma powder per kilogram of seeds before sowing to protect emerging seedlings from early-stage infections.



ROOT/SEEDLING DIP

Soak the roots of seedlings (such as paddy, vegetables, or fruit crops) for 10–20 minutes in a mixture of 10 grams of Trichoderma per liter of water before transplanting to prevent transplant shock and root rot.



SOIL DRENCHING & AMENDMENT

Mix 5 to 10 grams per liter of water and apply directly to the soil/root zone, or blend 1 to 2 kilograms with a ton of well-rotted Farm Yard Manure (FYM) to enrich the soil before planting

High Efficiency

Eco Friendly Bio - Fungicide & plant growth promoter (PGPR)

CFU 2×10^8 / ml

Soil health Eco friendly

SUITABLE FOR ALL CROPS



CEREALS



PULSES



OILSEEDS



FRUITS



SUGARCANE



COTTON



SPICES

BACILLUS SUBTILIS

BIO-FUNGICIDE & PLANT GROWTH PROMOTING BACTERIUM

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Bacillus subtilis is a highly beneficial soil bacterium used in sustainable agriculture as a bio-fungicide and plant growth-promoting rhizobacteria (PGPR). It improves crop yields by fighting off harmful plant pathogens, enhancing nutrient uptake, stimulating root development, and increasing stress tolerance.



IMPROVES
ROOT SYSTEM



CONTROLS
PLANT DISEASES



ENHANCE SOIL
FERTILITY



BOOSTS
YIELDS



SAFE FOR
ENVIRONMENT

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