

AGRO TECH LAB

MARIPOSA



INGREDIENTS

PSEUDOMONAS FLUORESCENS	2.5×10^6 CFU/ML
BACILLUS SUBTILIS	2.5×10^6 CFU/ML
BACILLUS MEGATERIUM	2.5×10^6 CFU/ML
LYSOBACTER ENZYMOGENES	2.5×10^6 CFU/ML
VITAMINS	0,12 % w/w
HUMIC ACID	0,13 % w/w

KEY FEATURES

- **BROAD-SPECTRUM DISEASE CONTROL:**
- PRODUCES ANTIBIOTICS, ENZYMES, AND ANTIFUNGAL COMPOUNDS TO INHIBIT DISEASES LIKE FUSARIUM, PHYTOPHTHORA, AND RHIZOCTONIA.
- **PLANT GROWTH PROMOTION:**
- ENHANCES NUTRIENT UPTAKE WITH SIDEROPHORES AND ENZYMES, IMPROVING SOIL FERTILITY AND PLANT VIGOR.
- STIMULATES ROOT DEVELOPMENT AND PROLIFERATION WITH PLANT GROWTH-PROMOTING HORMONES (AUXINS).
- **ENVIRONMENTAL SUSTAINABILITY:**
- REDUCES RELIANCE ON SYNTHETIC CHEMICALS, SUPPORTING INTEGRATED PEST MANAGEMENT (IPM) PRACTICES.
- IMPROVES SOIL HEALTH THROUGH BIOLOGICAL NUTRIENT CYCLING AND ORGANIC MATTER DECOMPOSITION.
- **VERSATILE APPLICATION METHODS:**
- SUITABLE FOR SEED TREATMENT, SOIL INOCULATION, OR FOLIAR SPRAY, PROVIDING FLEXIBILITY IN APPLICATION.
- COMPATIBLE WITH ORGANIC FARMING PRACTICES, ALIGNING WITH SUSTAINABLE AGRICULTURE STANDARDS.



PRODUCT DESCRIPTION

IN THE INTRICATE TAPESTRY OF MODERN AGRICULTURE, MARIPOSA STANDS OUT AS A BEACON OF INNOVATION AND SUSTAINABILITY. THIS ADVANCED BIOFORMULATION INTEGRATES A POWERFUL BLEND OF BENEFICIAL BACTERIA METICULOUSLY SELECTED TO ENHANCE PLANT HEALTH, PROMOTE NUTRIENT UPTAKE, AND PROVIDE ROBUST PROTECTION AGAINST A WIDE ARRAY OF PATHOGENS. MARIPOSA EMBODIES THE FUTURE OF CROP MANAGEMENT, COMBINING THE BEST OF MICROBIAL SCIENCE TO DELIVER EXCEPTIONAL RESULTS.

KEY INGREDIENTS:

- PSEUDOMONAS FLUORESCENS
- BACILLUS SUBTILIS
- BACILLUS MEGATERIUM
- LYSOBACTER ENZYMOGENES

MARIPOSA'S CORE STRENGTH LIES IN ITS SYNERGISTIC CONSORTIUM OF BENEFICIAL BACTERIA, EACH PLAYING A UNIQUE ROLE IN FOSTERING PLANT VITALITY. PSEUDOMONAS FLUORESCENS, A RENOWNED BIOCONTROL AGENT, ACTIVELY SUPPRESSES PLANT PATHOGENS THROUGH THE PRODUCTION OF ANTIBIOTICS AND ANTIFUNGAL COMPOUNDS. THIS BACTERIUM NOT ONLY PROTECTS PLANTS FROM DISEASES BUT ALSO PROMOTES ROOT GROWTH AND IMPROVES NUTRIENT UPTAKE, CREATING A THRIVING ENVIRONMENT FOR CROPS.

COMPLEMENTING THIS, BACILLUS SUBTILIS AND BACILLUS MEGATERIUM CONTRIBUTE TO MARIPOSA'S MULTIFACETED APPROACH TO PLANT HEALTH. BACILLUS SUBTILIS IS CELEBRATED FOR ITS ABILITY TO PRODUCE ENZYMES AND ANTIMICROBIAL PEPTIDES THAT INHIBIT PATHOGEN GROWTH, WHILE BACILLUS MEGATERIUM EXCELS IN SOLUBILIZING PHOSPHORUS, MAKING IT MORE ACCESSIBLE TO PLANTS. THIS DUAL ACTION ENHANCES NUTRIENT AVAILABILITY AND UPTAKE, ENSURING PLANTS RECEIVE THE ESSENTIAL ELEMENTS NEEDED FOR OPTIMAL GROWTH.

LYSOBACTER ENZYMOGENES, ANOTHER KEY COMPONENT OF MARIPOSA, BRINGS ADDITIONAL STRENGTH TO THE FORMULATION. KNOWN FOR ITS PRODUCTION OF LYTIC ENZYMES, THIS BACTERIUM BREAKS DOWN THE CELL WALLS OF PATHOGENIC FUNGI, OFFERING POWERFUL BIOCONTROL PROPERTIES. ITS PRESENCE IN MARIPOSA ENSURES A BROAD-SPECTRUM DEFENSE MECHANISM, PROTECTING PLANTS FROM A VARIETY OF SOIL-BORNE AND FOLIAR DISEASES.

MARIPOSA IS DESIGNED WITH SUSTAINABILITY IN MIND, PROMOTING ENVIRONMENTALLY FRIENDLY AGRICULTURAL PRACTICES. BY REDUCING THE RELIANCE ON SYNTHETIC CHEMICALS, IT SUPPORTS INTEGRATED PEST MANAGEMENT (IPM) STRATEGIES AND ALIGNS WITH ORGANIC FARMING PRINCIPLES. MARIPOSA'S VERSATILITY ALLOWS FOR VARIOUS APPLICATION METHODS, INCLUDING SOIL DRENCH, SEED TREATMENT, AND FOLIAR SPRAY, MAKING IT ADAPTABLE TO DIVERSE FARMING SYSTEMS AND CROP TYPES.

THE COLLECTIVE ACTION OF MARIPOSA'S BACTERIAL CONSORTIUM NOT ONLY SAFEGUARDS CROPS BUT ALSO PROMOTES VIGOROUS GROWTH AND RESILIENCE. BY ENHANCING NUTRIENT UPTAKE AND IMPROVING SOIL HEALTH, MARIPOSA CONTRIBUTES TO INCREASED CROP YIELDS AND BETTER QUALITY PRODUCE. ITS HOLISTIC APPROACH ENSURES THAT PLANTS ARE WELL-EQUIPPED TO WITHSTAND ENVIRONMENTAL STRESSORS, LEADING TO MORE CONSISTENT AND RELIABLE HARVESTS.



DO NOT USE MIX OR USE BEFORE/AFTER FUNGICIDE OR COPPER BASED PRODUCT . THIS WILL CAUSE TO DECREASE THE EFFECT OF THE PRODUCT

DOSES / CROPS

CROP	DOSE PER APPLICATION (FOLIAR)	DOSE PER APPLICATION (ROOT)
HORTICULTURAL CROPS	1,5-2.0 L / HECTARE (OR 1000L)	2.0 L / HECTARE
FRUIT TREES	1,5-2.0 L / HECTARE (OR 1000L)	2.0 L / HECTARE
WOODY CROPS	1,5-2.0 L / HECTARE (OR 1000L)	2.0 L / HECTARE
CANABISS	1,5-2.0 L / HECTARE (OR 1000L)	2.0 L / HECTARE
HYDROPONICS	1,5-2.0 L / HECTARE (OR 1000L)	2.0 L / 1000 L
<u>GRASS</u>	<u>SMALL: (100 ML/10,000 CELLS)</u>	<u>SMALL: (1L/10,000 CELLS)</u>
<u>EXTENSIVE CROPS</u>	<u>MEDIUM: (100 ML/6,750 CELLS)</u>	<u>MEDIUM: (1L/6,750 CELLS)</u>
<u>SEEDBEDS</u>	<u>LARGE: (100 ML/5,000 CELLS)</u>	<u>LARGE: (1L/5,000 CELLS)</u>