

MicrobeBio[®]

X3-SB[™]

**ADVANCED MULTI-STRAIN
BIOLOGICAL INSECTICIDE**



**POWERFUL
PROTECTION**



**NATURAL
POWER**



**BROAD
SPECTRUM**



**LASTING
RESULTS**





MicrobeBio®

X3 SB™

MULTI-STRAIN BIOLOGICAL INSECTICIDE

WETTABLE POWDER (WP)

ADVANCED CONTROL FOR
STINK BUGS & STEM BORERS
+ BROAD SPECTRUM PROTECTION

POWERED BY
7 POWERFUL MICROBES

- HIGH EFFECTIVENESS
- LONGER RESIDUAL ACTIVITY
- STRONG ADHESION & COVERAGE
- PERFORMS IN HEAT, UV & HUMIDITY
- SAFE FOR PLANTS, PEOPLE & THE ENVIRONMENT

NATURAL ORIGIN SAFE & ECO-FRIENDLY LONG-LASTING PROTECTION EXCELLENT DISPERSIBILITY

NET CONTENT
1 kg

BE NATURAL
BE THE SOLUTION

MADE FOR BETTER HARVESTS



MicrobeBio® X3 SB™

MULTI-STRAIN BIOLOGICAL INSECTICIDE

A powerful blend of beneficial microbes formulated to control a wide range of chewing and sucking pests, with enhanced performance against stink bugs and stem borers.

ACTIVE INGREDIENTS (Minimum Guarantee)

<i>Beauveria bassiana</i>	≥ 1 x 10 ⁸ spores/g
<i>Metarhizium anisopliae</i>	≥ 1 x 10 ⁸ spores/g
<i>Bacillus thuringiensis</i> (Bt)	≥ 1 x 10 ⁸ CFU/g
<i>Chromobacterium subdenudatum</i>	≥ 1 x 10 ⁸ CFU/g
<i>Lecanicillium lecanii</i>	≥ 1 x 10 ⁸ spores/g
<i>Isaria fumosorosea</i>	≥ 1 x 10 ⁸ spores/g
<i>Bacillus subtilis</i> (optional)	≥ 1 x 10 ⁸ CFU/g

HOW IT WORKS



EFFECTIVE AGAINST

STINK BUGS	STEM BORERS	CATERPILLARS	ARMYWORMS
APHIDS	WHITEFLIES	THIRPS	LEAFHOPPERS
MEALYBUGS	BEETLES	PLANTHOPPERS	PSYLLIDS

ENHANCE PERFORMANCE (OPTIONAL)
Add at application for maximum results under high pest pressure.

BIOCHAR 0.5-1%	SOLUBLE SUGAR 0.5-1%	STICKER / SPREADER As recommended	HUMIC / FULVIC 0.2-0.5%
-------------------	-------------------------	--------------------------------------	----------------------------

BENEFITS OF ADD-ON SYSTEM

- Increases effectiveness by 10-20%
- Extends residual activity
- Improves adhesion & wet coverage
- Better performance in adverse conditions

SAFE FOR BENEFICIALS: BEES, EARTHWORMS & NATURAL ENEMIES

DIRECTIONS FOR USE
Mix recommended rate with clean water. Apply in the early morning or late afternoon. Ensure good coverage of plant surfaces.

STORAGE
Store in a cool, dry place. Keep away from direct sunlight and moisture.

FOR AGRICULTURAL USE ONLY
KEEP OUT OF REACH OF CHILDREN

AVAILABILITY SIZES
1 kg 5 kg 25 kg

MicrobeBio®
www.microbebio.com

50626 79876

WHY MICROBEBIO X3-SB™?

Modern agriculture faces increasing pressure from:

- Resistant insect populations
- High chemical pesticide costs
- Environmental concerns
- Crop stress and yield loss

Microbebio X3-SB™ was developed as an advanced biological solution designed to provide broad-spectrum insect control while supporting sustainable crop production.

The product combines beneficial entomopathogenic fungi and biological insect-control bacteria with advanced mineral carrier technology for superior field performance.

WHAT IS X3-SB™?

Microbebio X3-SB™ is a proprietary multi-strain biological insecticide formulated as a wettable powder (WP).

It is specifically designed for:

- Stink bugs
- Stem borers
- Caterpillars
- Sucking insects
- Piercing insects
- Hard-to-control agricultural pests

The formulation provides:

- Biological infection
- Feeding suppression
- Residual protection
- Lifecycle disruption



HOW X3-SB™ WORKS

MULTI-MODE ACTION SYSTEM

1. CONTACT INFECTION

Beneficial fungi attach to insect bodies and penetrate the cuticle.

2. INGESTION ACTION

Beneficial bacteria disrupt feeding and digestion.

3. FEEDING SUPPRESSION

Pests reduce feeding activity and crop damage.

4. RESIDUAL PROTECTION

Microbes remain active on plant surfaces after spraying.

5. REPRODUCTION DISRUPTION

Helps break the pest lifecycle and reduce reinfestation.

BENEFITS OF **MICROBEBIO® X3-SB™**



Broad Spectrum Pest Control

Controls chewing, sucking, piercing, and boring pests.



Strong Leaf Adhesion

Improves persistence and spray performance.



Enhanced Stink Bug & Stem Borer Control

Optimized for difficult field pests.



Eco-Friendly Technology

Supports sustainable agriculture systems.



Multi-Mode Biological Action

Reduces resistance development.



Safer for Beneficial Organisms

Lower environmental impact than many conventional pesticides.



Strong Field Stability

Performs under heat, UV, and humidity.



Protects Yield & Crop Quality

Reduces crop stress and feeding damage.



NATURAL POWER. MAXIMUM PROTECTION.



A close-up photograph of rice panicles in a field during sunset. The sun is low on the horizon, creating a warm, golden glow and lens flare effects. The rice grains are in various stages of ripening, with some showing yellowish-green hues. The background is a soft, out-of-focus field of rice.

**EFFECTIVE
AGAINST**

MicrobeBio®

HARD-SHELL PESTS

- ✓ Beetles
- ✓ Flea beetles
- ✓ Leaf beetles
- ✓ Weevils



BETLES



FLEA BEETLES



LEAF BEETLES



WEEVILS



BROAD
SPECTRUM



POWERFUL
PROTECTION



ECO-FRIENDLY
TECHNOLOGY



PROTECTS YIELD
& CROP QUALITY

MicrobeBio[®]

BORERS & STEM PESTS

- ✓ Rice stem borers
- ✓ Corn borers
- ✓ Sugarcane borers
- ✓ Stem-feeding larvae



 RICE STEM BORERS

 CORN BORERS

 SUGARCANE BORERS

 STEM-FEEDING LARVAE



BROAD SPECTRUM



POWERFUL PROTECTION



ECO-FRIENDLY TECHNOLOGY



PROTECTS YIELD & CROP QUALITY

MicrobeBio®

SUCKING & PIERCING PESTS

- Aphids
- Whiteflies
- Thrips
- Leafhoppers
- Planthoppers
- Psyllids
- Mealybugs



 APHIDS



 WHITEFLIES



 THRIPS



 LEAFHOPPERS



 PLANTHOPPERS



 PSYLLIDS



 MEALYBUGS



BROAD SPECTRUM



POWERFUL PROTECTION



NATURAL POWER



LASTING RESULTS



NATURAL POWER. MAXIMUM PROTECTION.

MicrobeBio®

CHEWING PESTS

- Armyworms
- Caterpillars
- Loopers
- Cutworms
- Corn earworms
- Tobacco worms



 ARMYWORMS




 CATERPILLARS



 LOOPERS



 CUTWORMS



 CORN EARWORMS



 TOBACCO WORMS

 BROAD SPECTRUM

 POWERFUL PROTECTION

 NATURAL POWER

 LASTING RESULTS

 NATURAL POWER. MAXIMUM PROTECTION.

MicrobeBio®

CROPS SUITABLE FOR X3-SB™

- Rice
- Corn / Maize
- Vegetables
- Fruit Trees
- Soybean
- Sugarcane
- Coffee
- Banana
- Tobacco
- Pepper
- Potato
- Cassava



NATURAL POWER.
MAXIMUM PROTECTION.



ENGINEERED FOR REAL FIELD CONDITIONS

X3-SB™ is designed to perform under:

- High heat
- Tropical humidity
- UV exposure
- High pest pressure

FIELD ADVANTAGES

- Long residual activity
- Excellent dispersion
- Improved leaf coverage
- Better persistence after application





MAXIMUM PERFORMANCE SYSTEM



For enhanced performance under severe infestations or harsh environmental conditions:

RECOMMENDED ADD-ONS

- Micronized biochar
- Molasses
- Sticker/spreader
- Humic/fulvic additives

BENEFITS

- Increased microbial persistence
- Better leaf adhesion
- Enhanced field performance
- Longer residual activity





GENERAL APPLICATION GUIDELINES

Crop Type	Recommended Rate
Field Crops	0.5–1.5 kg/ha
Vegetables	0.5–1 kg/ha
Fruit Trees	1–2 kg/ha

APPLICATION RECOMMENDATIONS

- Apply during low sunlight periods
- Ensure complete crop coverage
- Use clean non-chlorinated water
- Repeat every 5–10 days depending on pest pressure



STORAGE & PACKAGING



STORAGE

- Store cool and dry
 - Keep sealed
 - Protect from direct sunlight
-



AVAILABLE PACKAGING

- 500 g
- 1 kg
- 5 kg
- 25 kg



MICROBEBIO X3-SB™

Natural Power. Maximum Protection.

FINAL MESSAGE:

Modern pest control
requires more than chemicals.

Microbebio X3-SB™

delivers advanced biological protection
engineered for real agricultural
field conditions.



BIOLOGICAL
TECHNOLOGY



SUSTAINABLE
AGRICULTURE



BROAD SPECTRUM
PROTECTION



REDUCED
CHEMICAL
DEPENDENCY

The logo for MicrobeBio is displayed on a white, ribbon-like banner that appears to be peeling up from the top of the page. The banner is set against a background of a lush green rice field under a bright, golden sunset sky. The sun is low on the horizon, casting a warm glow over the scene. The rice plants in the foreground are tall and green, with some golden panicles visible. The banner has a slight shadow and a 3D effect, making it look like it's floating above the field.

MicrobeBio[®]

www.Microbebio.com
info@microbebio.com