

BEAUVITECH® WP

BEAUVITECH® WP (L9076) is a biological insecticide containing *Beauveria bassiana* used to control whiteflies.



**River
Bioscience**

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PRODUCT SPECS

Active Ingredient: *Beauveria bassiana* J25
 Ingredient Type: Insect-killing Fungi

PRODUCT USES

Target Pest: Whiteflies
 Crops: Vegetables & Flowers

BEAUVITECH® WP kills the insect by mechanical damage through tissue invasion, resulting in depletion of nutrients and release of secondary metabolites (toxins).

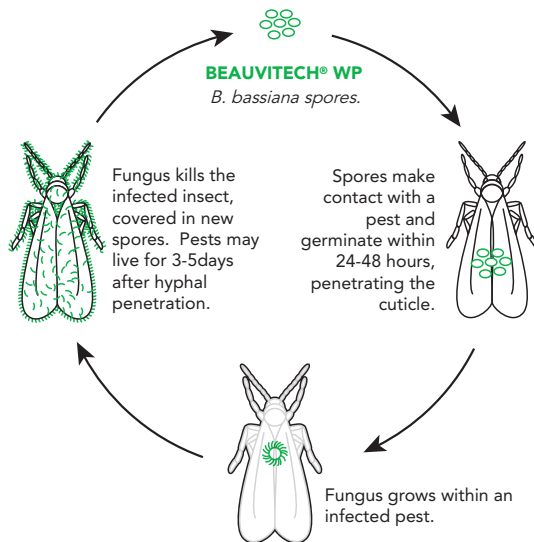
BIOLOGY

BEAUVITECH® WP contains spores of *Beauveria bassiana* J25, a fungus which kills whiteflies through an entomopathogenic process.

MODE OF ACTION

- Attachment – Spores of *B. bassiana* attach to the insect body and germinate.
- Penetration – Fungal hyphae, through enzymatic action, break through the insect cuticle and penetrate the insect body.
- Multiplication – The fungus obtains nutrients from the insect and multiplies inside the insect, producing toxins and destroying internal tissues.
- Death – The insect reduces its feeding and mobility and eventually dies after 3–5 days, depending on insect species, age and conidial dose.
- Spore emergence – After insect death, spores emerge through the cuticle forming a white covering around the insect cadaver.

LIFE CYCLE SHOWING ACTION



ADVANTAGES OF BEAUVITECH® WP

- Highly effective against a wide variety of soft bodied pests.
- Self-propagates in the field.
- No resistance development and phytotoxicity.
- Zero re-entry and zero post-harvest interval.
- Safe to the environment, users, and beneficial organisms.
- Can be tank mixed with most insecticides and miticides.
- Can be applied conventionally without the need for specialized equipment.



APPLICATION METHOD AND RATES

BEAUVITECH® WP is applied as a foliar spray at 250g per hectare*. It is recommended to apply BEAUVITECH® WP with a water volume of 1500-2000 liters of water and to spray every 5-7 days with between 2-4 repeat applications. Spray directly after mixing and don't store overnight.

*Add the required amount of an appropriate wetter at recommended rates and mix thoroughly (Information on the appropriate wetter may be obtained from your agent or River Bioscience representative).

BEST PRACTICE

- Apply using high volume spray equipment. Thorough coverage of the leaf surfaces where the insects are to be found is a must to obtain good efficacy.
- Maintain a minimum relative humidity of 70% for at least 12 hours. Highest infection levels are achieved at temperatures of between 20 - 28°C as this is ideal for spore germination.
- Best results will be achieved when applications are done early morning or late afternoon. Avoid spraying between 11:00 and 16:00 when the UV index is high and the relative humidity is low, as these factors affect BEAUVITECH® WP spore germination.
- Avoid incompatible pesticides for at least 12 hours before and after application.

IPM ADVICE

Before introducing BEAUVITECH® WP to your crop it is important that the plant is clean of negative chemical residues. Please consult your agent or a River Bioscience representative with regards to the Side Effect Guide for compatible chemicals.

STORAGE

| | |
|----------------------|------------------------------|
| Storage Temperature | 6-12°C |
| Conditions | Cool & dry |
| Max Storage Duration | 6 months from packaging date |

PACKAGING

Beneficial Fungi as packed
 Quantity: 1.0x10¹⁰ CFU per gram in an inert carrier
 Pack Size: 250g

Do not freeze or allow product to undergo thermal shock. Store upright in the original unopened container.

