

**BIOFIT™**  
*Microbial Consortia*  
BioFungicide  
**APPROVED FOR USE IN ORGANIC AGRICULTURE**

### Introducing BIOFIT™

BIOFIT™ is a biological fungicide based on a selected strains of naturally-occurring antagonistic microbes. BIOFIT™ contains spores, mycelia fragments and vegetative cells of the microbial consortia. It works as both a fungicide and a plant growth promoting rhizosphere microbes (PGPR). It is formulated as Soluble Powder. BIOFIT™ is approved for use in Organic agriculture.

### Mode of Action

**Substrate Competition for space and Nutrients:** BIOFIT™ colonizes maximum space of the root systems and absorbs maximum nutrients available at the target site and thereby controls the pathogens by starving them for food and competing for space- Domino effect.

**Mycoparasitism:** BIOFIT™ is a biological fungicide that attacks disease-causing pathogens before they reach the root system. It derives nutrition from the target pathogen and BIOFIT™ microbes multiply inside it and eventually kill the pathogen.

**Enzyme production:** BIOFIT™ secretes certain antagonistic secondary metabolites which have an anti fungal effect that pathogenise and kill the disease causing organism.

### Method of Application

**Nursery Application:** Mix 2g / L of water and drench the nursery bed.

**Foliar Application:** Mix 1g of BIOFIT™ per 1 L of water and spray. Spraying depends on the climatic conditions that favour disease occurrence. Spray at an interval of 7 to 10 days depending upon the crop and intensity of disease. Adding a sticking agent to the solution will aid in better adherence of the formulation to the crops and offers better disease control.

### Target Diseases

BIOFIT™ controls disease causing pathogenic species like *Pythium*, *Alternaria*, *Xanthomonas*, *Rhizoctonia*, *Botrytis*, *Oidiopsis*, *Alternaria*, *Leveillula*, *Phakopsora*, *Sclerotium*, *Phytophthora*, *Peranospora*,

*Sclerotinia* which cause diseases such as root rot, root wilt, seedling rot, early blight, late blight, leaf spot, stem rot and mildew diseases in crops.

## Crops

BIOFIT™ is suitable for application on Cereals , Millets , Pulses, Oilseeds, Fibre Crops , Sugar Crops , Forage Crops , Plantation crops ,Vegetables, Fruits, Spices , Flowers , Medicinal crops , Aromatic Crops , Orchards and Ornamentals

## Compatibility

BIOFIT™ is compatible with BioPesticides and not with Chemical Fungicides.

## Shelf Life

BIOFIT™ is stable for a period of 12 months from the date of manufacturing.

## Mass Composition

CONSTITUENT	W/W %	FUNCTION
<i>Microbial consortia</i> (Spores, mycelia and vegetative cells)	2.00%	Active
Moisture	8.00% max	Inactive
Carrier Powder - Dextrose	90.0%	Inactive

*Free from Salmonella, Shigella , E.Coli*

## Cautions for handling and use of product

1. Avoid inhalation and skin contact while diluting as there could be spillage / splashes of the product.
2. Mixing and spraying equipment is to be thoroughly rinsed with water and detergent before using the same equipment for spraying other chemical agricultural inputs.
3. Surplus spray solution should not be disposed in crop lands / stagnant water / flowing water where there is a possibility of causing pollution to natural resources
4. Do not eat / drink / smoke during application.
5. Direct incidence of BIOFIT™ may cause irritation and therefore it is recommended that the operator should use protective gear viz gloves, apron, mask, eye gear and hood.

## Symptoms and Antidotes

**Symptoms:** Occasional symptoms include head ache and nausea.

**Antidote:** In the case of ingestion: symptomatic treatment is advised. In the case of contact with Eyes: Flush with water liberally for 20 minutes. In case of Skin contact, wash the affected area with plenty of water and soap.

### Citations

There are no public citations of BIOFIT™ as it is a proprietary product

### Commitment to Nature

- BIOFIT™ is approved for use in Organic Agriculture.
- BIOFIT™ is safe to natural parasites, pollinators and predators.
- BIOFIT™ can be used as an effective component in IPM programmes, thereby leading to a reduction in use of chemical pesticides and creating a safer environment.
- BIOFIT™ does not lead to residue problems and doesn't cause resistance or resurgence problems.

### Benefits from BIOFIT™

- BIOFIT™ effectively controls most of the economically important diseases such as root rot, root wilt, seedling rot, early blight, late blight, leaf spot, stem rot and mildew diseases in crops Pest reduction leads to improved plant health and thereby increased crop productivity.
- BIOFIT™ is pet friendly , eco friendly and infant friendly