

BIOMYCIN™

Broad spectrum Immunomodulator

Introducing Biomycin™

Biomycin™ is a broad-spectrum Immuno modulator and a plant defense activator. It has prophylactic, preventive and curative properties in controlling the bacterial diseases. Plant activators provide an effective management solution for bacterial diseases of plants. They induce plant defense responses known as systemic acquired resistance (SAR) or induced systemic resistance (ISR).

Mode of Action

It induces resistance development in host plant through activating respective centres of plants for protection against a variety of bacterial pathogens; it has no direct activity against target pathogens. BIOMYCIN exhibits a unique mode of action, which mimics the natural systemic activated resistance (SAR) response found in most plant species

Method of Application

Biomycin™ should be applied to plant foliage as preventative application, before disease is observed in the field.

Foliar Application: Mix 0.3 ml of Biomycin™ per 1 L of water and spray. Adding a sticking agent to the solution will aid in better adherence of the formulation to the crops

Application Frequency: The frequency of application also depends on the percentage of diseases infestation. In the case of high infestation multiple applications are recommended. Applications during early stages of plant growth protect the plant during critical stages of development, translating into better performance and yield

Target Diseases and microbes

Biomycin™ helps the plant develop resistance against most bacterial diseases caused by pathogenic microbes. Some of the diseases are Fire blight, Citrus canker, Bacterial leaf spot, Soft rot soil rot or pox Leaf spot, Halo blight, bacterial blight, bacterial leaf blight, bacterial wilt, Stem rot, soft rot leaf spots and blights, Bacterial blight and vascular wilting

Some of the disease causing pathogens are listed under:

- *Erwinia amylovora*
- *Erwinia chrysanthemi*,

- *Erwini carotovora*
- *Erwinia stewartii*
- *Pseudomonas syringae*,
- *Pseudomonas cichorii*
- *Pseudomonas solanacearum*
- *Pseudomonas syringae*
- *pv. Pelargon*
- *Streptomyces ipomoea*
- *Xanthomonas campestris*
- *Xanthomonas citri*
- *Xanthomonas vesicatoria*

Crops

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

Compatibility

Biomycin™ is compatible with most agricultural chemicals .It is NOT compatible with microbial
BioPesticides and Microbial BioFertilizers

Shelf Life

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

Mass Composition

CONSTITUENT	W/W %	FUNCTION
Bronopol Tech	30% min	Active
Inert carriers	q.s	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 Biomycin™ 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 many citations on use of bronopol and its applications in agriculture

Commitment to Nature

- Biomycin™ is safe to natural parasites, pollinators and predators.
- Biomycin™ can be used as an effective component in IPM programmes
- Biomycin™ does not lead to residue problems and doesn't cause resistance or resurgence problems.

Benefits from Biomycin™

- Biomycin™ is an effective immunomodulator and plant defense activator.
- Biomycin™ imparts Systemic acquired resistance by improving plant's immunity to the pathogen and thereby doesn't cause pathogen resistance.