

Cropium

Biofungicide

Introduction

Cropium is a bio fungicide containing the naturally occurring soil fungus *Penicillium bilaiae* (*P. bilaiae*), created and designed to fight against soil-borne disease such as *Fusarium* spp, *Pythium* spp, *Rhizoctonia* spp and *Verticillium* spp, The disease control offered by Cropium is an innovative tool that helps farmers fight against verticillium wilt and fusarium wilt, promoting stronger roots and healthy growth, supporting greater abiotic stress tolerance and earlier, and releasing phosphate bound, resulting in higher potential yields and optimal quality at harvest.



Composition

ACTIVE INGREDIENT: *Penicillium Bilaiae* (*P. Bilaiae*)

Bacteria count 2×10^8 CFU/g , powder type, 1 kg per foil bag

Target Disease

- Verticillium wilt
- Fusarium wilt
- Downy mildew
- Sclerotinia Stem Rot
- Ring rot
- Soft rot
- Early Blight
- Later blight

Common Crops

- Tomato
- Cotton
- Berries
- Corn
- Cucumber
- Cheery
- Pepper
- Sunflower
- Pepper
- Eggplant
- All wheat
- Peas

Mode of Action

- After apply, it can form a dominant colony in soil, contest the rhizosphere space, so that pathogenic bacteria lose living space and reproduction opportunities, all-round inhibition of pathogenic disease growth.
- Secrete Penicillin antibiotics to deform the mycelium of pathogenic bacteria, while producing a variety of highly active enzymes to efficiently degrade the cell wall of pathogenic bacteria
- Secrete IAA (Indole-3-acetic acid), extracellular polysaccharide and iron carrier to promote crop root growth and improve abiotic stresses tolerance of crop.
- Release bound mineral form of soil and fertilizer, increase available freeing phosphate in the soil, improve the utilization rate of phosphorous fertilizer for crops, and ultimately promote plant growth.

Benefit:

- Effective inhibit verticillium wilt and fusarium wilt
- Bolsters root and shoot growth
- Supporting greater stress tolerance and earlier
- Improves phosphate availability , enhances early vigor,
- Improves yield potential,
- Improves plant nutrition enables plants to better handle enviro pressures,
- Active in cool soil temperature when phosphate is less available,

Dosage & Method

Drip irrigation: Apply 1 gram / sqm, as early as possible to the crop for optimal effect

Soak seedling: dilute into 50 times water and dip the root of seedling before planting / transplanting.

Soil Drench: Apply 1 gram / sqm via soil drench, as early as possible to the crop for optimal effect.

Tank Mixing

- Clean spray equipment prior to use ensuring that no traces of previous pesticides remain.
- Dissolve CROPIUM in a small amount of water and agitate ensuring product dispersion.
- Pre-mixing of the product is not required.
- Add the solution to the spray or irrigation tank with the total volume of water required, stirring continuously to ensure the product is thoroughly mixed.
- Can be applied using a dosing pump. Agitation of the stock solution is recommended to prevent precipitation.
- CROPIUM actively grows at temperatures between 10°C and 35°C, below 10°C growth is slowed and control levels reduced.
- CROPIUM is effective at a pH between 3-11, and more effective in neutral or acidic soils than in alkaline soils.
- CROPIUM can be applied to sterilized or fumigated soil but must be applied after sterilization or fumigation.

Caution

Do not use together with fungicides.

Packing and shelf life

2 year shelf life, 1 kg per foil bag, 10 kg per carton

Storage

Store in cool and dry, keep out of direct sunshine and moisture. Keep out of reach of children.