

# MP DEFENCE

0-19-30 + Biostimulants

## UNIQUE FEATURES

Highly concentrated formulation of potassium, phosphite and biostimulants acting as a cost-effective backbone to disease and stress management strategies. Phosphite remains in this form, not converting to phosphate. Fully utilised phosphite maximises disease defence and avoids unnecessary and inefficient conversion into phosphate for unneeded soil phosphorus reserves.

## FORMULATION COMPONENTS

**Phosphite** complements potassium (K) by

- Enhancing the structural integrity of plant cell walls, making it more difficult for pathogens to penetrate and infect plant tissues
- Stimulating plant defence systems against threatening pathogens

**Biostimulants**

- Proprietary blend of antibiotics, plant growth promoters/phytohormones, Iron-chelating compounds (Phytosiderophores) and antioxidants
- Stimulates existing soil microbes thus stimulating root growth

**Indole and naphthalene** (auxin) hormones

- Root stimulating, growth promoting and drought stress management hormones

**Potassium**

- Osmotic regulation - This affects water uptake and distribution within the plant and is essential for maintaining turgor pressure, cell expansion, and overall hydration of the plant
- Activation of enzymes - Enzymes are required for roles in processes like photosynthesis, respiration, protein synthesis, and carbohydrate metabolism
- Stomatal regulation - Optimises photosynthetic efficiency while minimising water loss under different environmental conditions.
- Stress tolerance - Contributes to the coping mechanisms of the plant for environmental stresses such as drought, heat, cold, salinity and disease.

## BENEFITS

- Proven beneficial tool in suppressing oomycete fungi through inhibition of mycelia growth and stimulation of plant defence mechanisms
- Aids in management of ERI (Take All type) diseases
- Promotes photosynthesis leading to increased carbohydrate production and energy storage
- Aids in helping turf survive challenging environmental conditions
- Foliar uptake with rapid uptake and fully systemic translocation throughout the entire plant

## GUARANTEED ANALYSIS

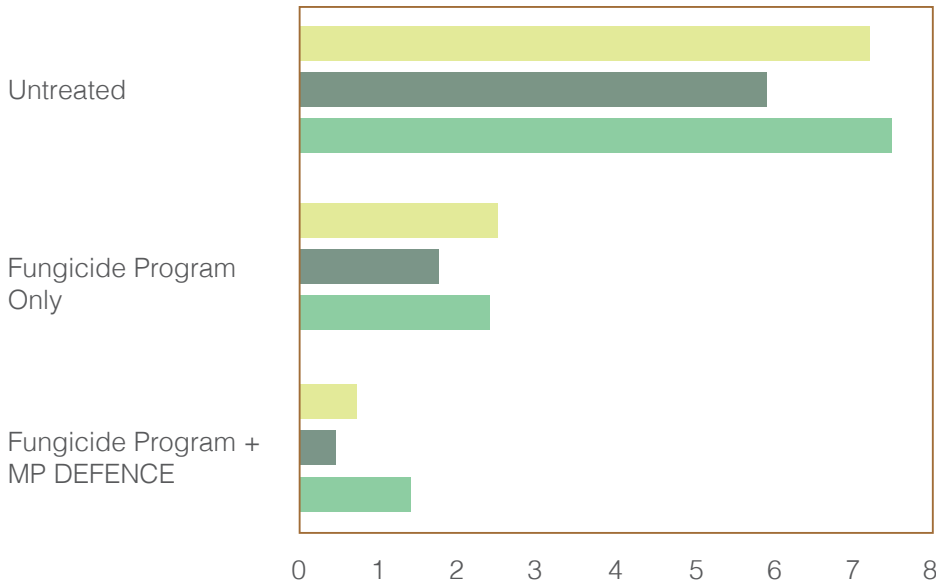
<b>Phosphorus (P)</b> As Phosphite	19%
<b>Potassium (K)</b> As Potassium Phosphite	30%

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## TAKE ALL ROOT ROT (ERI) %



## GUARANTEED ANALYSIS

**Phosphorus (P)** 19%  
As Phosphate

**Potassium (K)** 30%  
As Potassium Phosphate

		UNTREATED	FUNGICIDE PROGRAM ONLY	FUNGICIDE PROGRAM + MP DEFENCE
4/4/2023		7.3	2.6	0.8
21/3/2023		5.0	1.8	0.5
23/02/2023		7.5	2.5	1.6
% of ground cover - Take All Root Rot (ERI)				

## DIRECTIONS FOR USE

SITUATION	RATE	WATER VOLUMES
Foliar application	5 to 10 L/ha	Apply in 400L of water with Wetout Surfactant @75ml / 100L of water. Repeat every 21-28 days during the active growing season
Soil application	5 to 10 L/ha	Apply in 400-1000L water per ha - early morning or late afternoon. Consider reapplying every 21-28 days. Alternatively, it can be tank mixed with a wetting agent program or incorporated with fungicide applications in an ERI program.
Landscape & Ornamentals application	40ml per 10L of water	Apply through a boomspray or knapsack

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