



unite[®]

Natural Protectant Bio-fungicide



Agrimm[®]

Living barrier protection against damping-off and root rots



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What is Unite?

Unite is a natural product containing a blend of beneficial naturally occurring soil fungi from the saprophytic Trichoderma family.



Unite is the synthesis of more than 10 years work with Trichoflow and Trichogrow, utilising beneficial soil fungi with development and testing in many countries around the world. Unite has been developed by blending unique bio-inoculant strains of Trichoderma with identified bioactivity into a proprietary formulation of essential nutrients and promoters to ensure reproducible field performance.

How does Unite work?

- Creates a fast acting protective living barrier around plant roots
- Excludes root pathogens and competes for nutrient niche
- Direct contact with and consumption (parasitism) of root pathogens
- Sharing of beneficial micronutrients with plant roots
- Long lasting living protection against damping-off and root rots



Termed an 'immunising commensal' the Unite active ingredient interacts symbiotically with growing plant roots and provides a living barrier that simultaneously protects against and consumes plant pathogens, boosts the resilience and strength of the plant's own immune system, lives beneficially with the plant and boosts plant vigour – its reassuring to know that Unite is non-toxic and organic.

Unite protects against root rots in a range of crops

- Damping off in seedlings caused by Pythium and Rhizoctonia spp
- Pythium, Rhizoctonia and Phytophthora spp in glasshouse and field crops
- Pythium and Phytophthora spp in tree and vine plantings
- Cylindrocarpon spp in woody plants

Unite Organically Approved



Unite is Bio-Gro certified and approved for use as an allowed input.

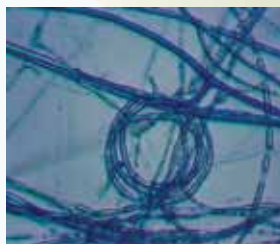


Image shows the coiling typical of fungal pathogen *Pythium irregulare* when grown on a nutrient agar plate

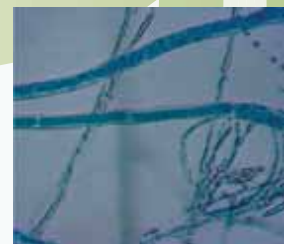


Image shows the result of Unite a.i. overgrowth of the harmful pathogen with disintegration of the pythium coil.

Living Barrier for long lasting protection

Unite provides a fast acting protective barrier that declines slowly

Root interactions sustain protective barrier performance

Incorporate with fungicide controls for optimum integrated protection from root disease

Soften your approach with

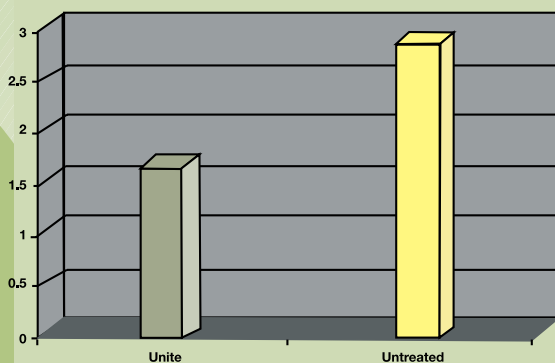




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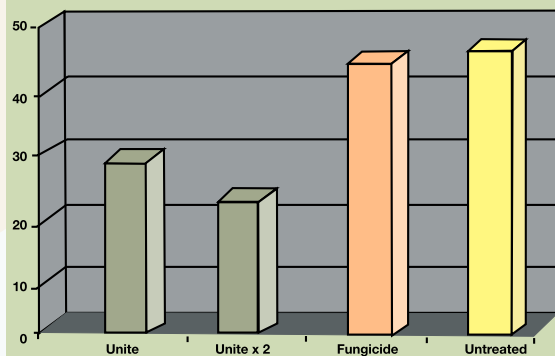
INTERNATIONAL TRIAL RESULTS FOR UNITE

% *Cylindrocarpon* spp in grapevines
Ag Research Council, Infruitec,
Republic South Africa



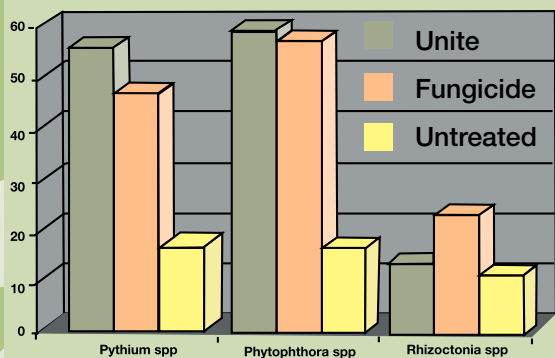
Data collected after propagation treatments and following field planting for 8 months.

% *Rhizoctonia* symptoms in potatoes at harvest
Scottish Institute - Pot trial



Data collected from a full seasons pot trial following spray treatment of planting soil. Unite x 2 was applied at double the recommended use rate.

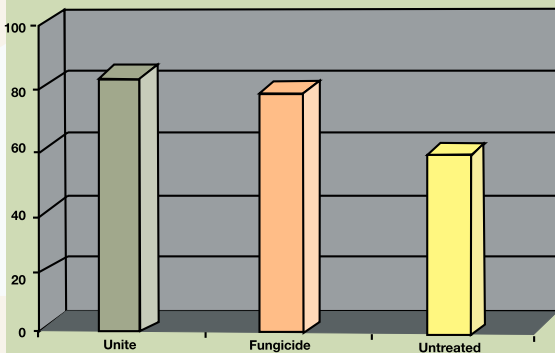
% Seedling survival in Nursery challenge trials
Serve Ag, Tasmania, Australia



Comparison of Unite with Previcur and untreated. Unite was applied 7 days prior to seeding. Previcur was applied 1 day after seeding. Pathogen challenge was applied 1 day after seeding.

The performance of the biocontrol products was generally as good as Previcur ... reported Dr Hoong Pung ServeAg Research, Tasmania Australia

% Brassica transplant survival
Proplant, Athens, Greece



Seedling plugs were treated prior to planting and survival was assessed 4 weeks after field planting. The standard fungicide treatment was Captan + Carbendazim.

Biological partner for integrated root-disease management



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Mixing & Application: Ensure the mixing tank has been thoroughly washed to remove any chemical residues before mixing **Unite** with fresh clean water. Always pre-mix **Unite** by adding the powder at the rate of 500g to a minimum of 5 litres of water. Mix well and stand for 5 minutes before adding to the dispensing tank that should contain a minimum of 100 litres of water. Ensure the dispensing tank is agitated continuously during application.

Covered cropping: For micro delivery systems, dripper and T-tape etc. apply by venturi into the main line downstream of any filters after 70%-85% of the cycle is complete. Always flush with clean water for the final 15% of the cycle.

Outdoor Cropping: Apply **Unite** by boom spray at high water rates of at least 1000 litres per hectare to ensure good penetration into the root zone. Alternatively, apply during light rainfall.

Always read the label before use.

Crop	Use Rate	Comments
Glasshouse/indoor Organic substrate Inorganic substrate Hydroponic / NFT	500g / 5000m ² , apply every 2 weeks 500g / 1000 litres every 10 - 14 days 500g / 1000 litres every 10 - 14 days	All applications to root zones with low organic content can benefit from extra or co-application of humic acid or seaweed extracts. No withholding periods
Field Crops	750g / hectare, apply monthly	
Seed Planting / Seedling Trays	500g / 100 litres	
Orchards & Vineyards	750g / hectare, 3 - 5 applications commencing at bud-burst	

IMPORTANT

RESISTANCE MANAGEMENT

The biological nature of **Unite** means it may be used without fear of the development of resistance.

Unite provides a powerful tool for growers to minimize development of resistance by integrating **Unite** into chemical control programmes.

PRE-EXISTING ROOT DISEASE

Unite is a protectant bio-fungicide and does not act as a disease knockdown. The recommended strategy is to use the appropriate chemical fungicide to knockdown the root disease and then to follow 7 days later with **Unite** at double the recommended use rate. A regular application of **Unite** thereafter should ensure continuing healthy roots.

COMPATIBILITY

Unite is unaffected by foliar applied fungicides with minimal run-off. **Unite** can, if required, be tank mixed with fungicides, Amistar®, Foli-R-Fos® (Phosphorous acid). For all other root drench fungicides wait 7 days after application before applying **Unite** at double the recommended use rate. Sanitizing agents, chlorine and ozone do not adversely affect **Unite**.

Registered pursuant to the ACVM Act 1997 No P7643

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Amistar is a registered trademark of Syngenta Group Company
Foli-R-Fos is a registered trademark of UIM Agrochemicals P/L
Previcur is a registered trademark of Bayer

Unite is a registered trademark of Agrimm Technologies Ltd, Christchurch, New Zealand

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