



Koppert

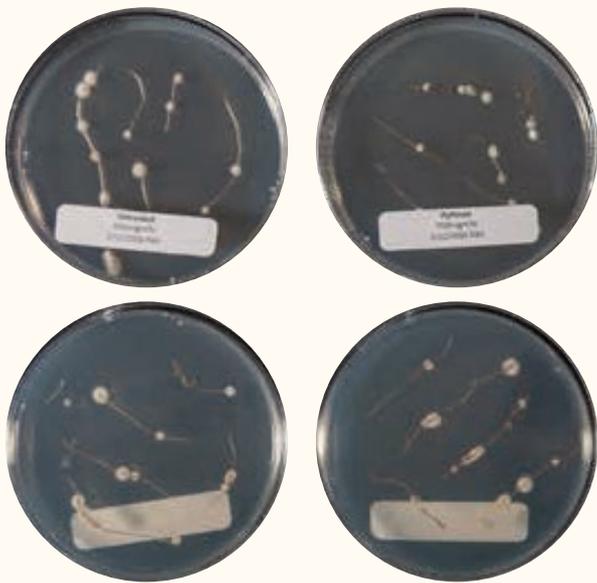
# Trianium

A healthy plant  
starts with  
healthy roots

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# Establishment on plant roots offers protection

Trianum plays an important role in making a wide variety of plants more productive and resilient to biotic and abiotic stressors. Using Trianum maximizes the establishment of beneficial fungi in the root system. This helps to protect the plant from soil borne diseases while improving crop health, seedling emergence and uniformity.



**Roots without Trianum**  
*Pathogenic microbes*



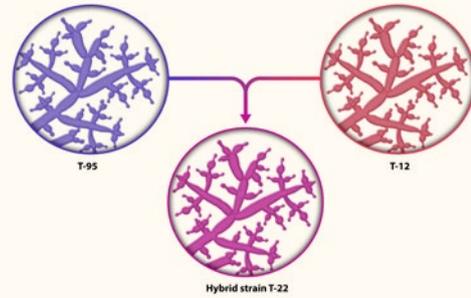
**Roots with Trianum**  
*Competitive exclusion  
by Trianum mycelia*



Partners  
with Nature

## The winning strain

The so-called T22 strain in Trianum has been extensively studied by groups of scientists from around the world and is actually a hybrid of two complementary strains that make a winning formula. One of the strains is a very competent root colonizer, and the other is an effective disease controller. As a result, Trianum offers a competitive root colonizer that establishes itself around the roots and protects them against diverse pathogens.



## Mode of action

The mode of action of Trianum is based on the following mechanisms:

- **Competition for space**

Trianum grows faster on the surface of the root than other soil-borne fungi. Other fungi get less chance to establish on the roots.

- **Competition for nutrients**

Trianum takes away the source of nutrients that the pathogens need. The pathogens therefore have less chance to develop.

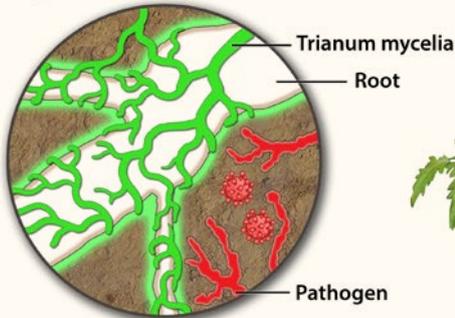
- **Parasitism of pathogens**

Trianum grows around the mycelia of the pathogens. The cell walls of the pathogens break down and the pathogens die.

- **Strengthening of the plant**

Trianum improves the root system through the formation of more root hairs, so that water and nutrients can be taken up better. This leads to a stronger and more uniform crop and better yields. This effect is stronger when the plant is under stress and/or cultivated under less than optimum growing conditions. Trianum also reinforces the defence mechanisms of the parts of the plant above ground, the so-called induced systemic resistance (ISR).

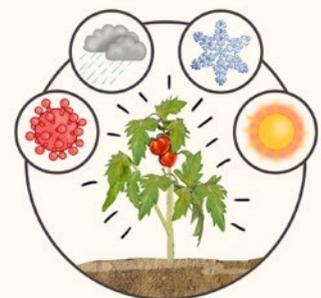
### Competition for space and nutrients



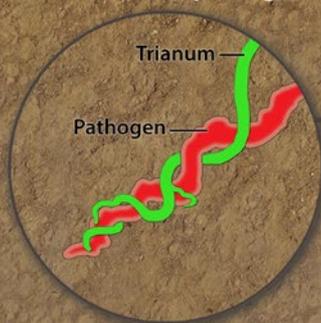
Increased Growth and Yield under stress conditions



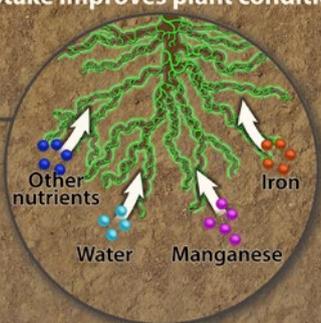
### Induced resistance



### Parasitism of pathogen



### Better nutrient availability and uptake improves plant condition





#### **Trianum-P available in 500 g or 5 kg**

- Highly soluble WP formulation
- Easy drench application through various methods
- High spore count means low application rates
- Used throughout the growing season



#### **Trianum-G available in 20 kg**

- No dust granule formulation
- Convenient incorporation into planting media and furrows
- Allows for even distribution through planting media
- Used at planting

Webshop: [www.koppertsa.co.za](http://www.koppertsa.co.za)

