

COLONIZER TR10



NUTRITION

SPECIALITY based on
MYCORRHIZAE combined
with TRICHODERMA and
RHIZOSPHERE BACTERIA

CONCENTRATED LYOPHILISED
FORMULATION



NEW

SOIL AND SEED APPLICATION

BIOLOGISTS
BY
TRADITION

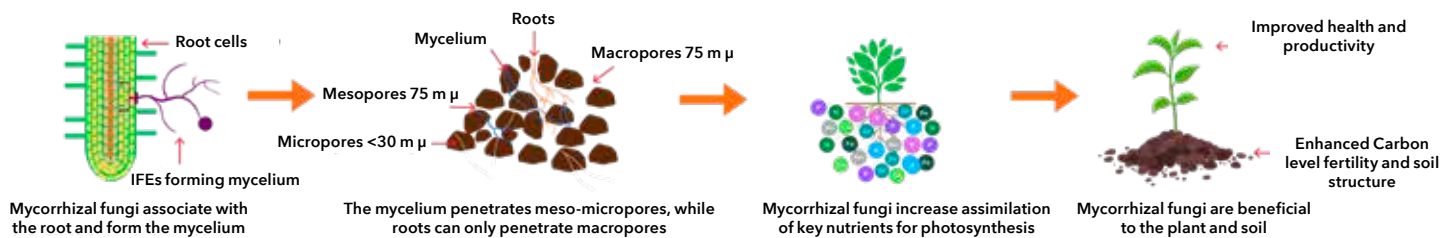


COLONIZER TR10 PRODUCT WITH SPECIFIC ACTION

Mycorrhizae: what they are and how they act

Soil is one of our most precious resources, but we often witness a loss of fertility due to years of misguided agricultural practices (e.g. excessive use of mineral fertilizers and pesticides). This process can be reversed by inoculating mycorrhizae in the soil.

Mycorrhizae are specialised groups of fungi that form a symbiotic relationship with plant roots. These mycorrhizal fungi are made up of different species and work together to form a series of "root extension" networks for the plant.



The symbiotic relationship that occurs involves a mutual exchange of benefits, the most important ones being nutrition and the creation of an environment favourable to beneficial micro-organisms and unfavourable to pathogens and opportunistic organisms.

Mycorrhizae directly and indirectly enhance plant growth, general health and tolerance to biotic and abiotic stresses.

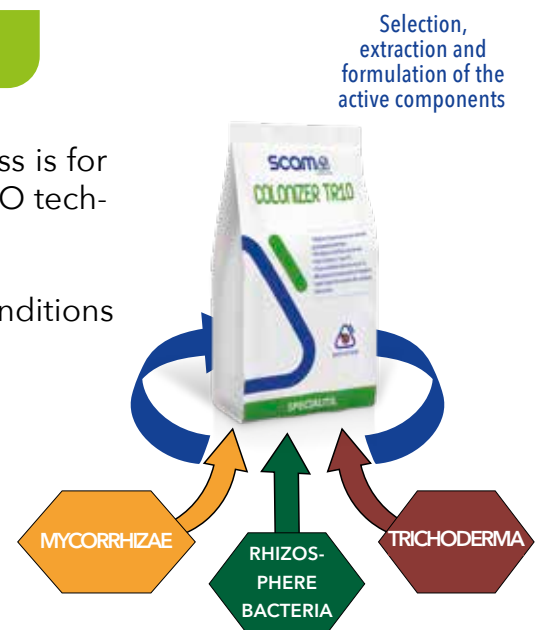
The mutualistic symbiosis between the plant and mycorrhizal fungi makes it possible for the plant to assimilate nutrients that are normally trapped in the soil (e.g. phosphorous P) and water; the mycorrhizal fungi in return receive photosynthesis, stimulating these metabolic processes in the plant.

Formulation of COLONIZER TR10

SCAM mycorrhizae are spread through IN VIVO. This process is for plants that allow mycorrhizal fungi to reproduce. The IN VIVO technique is used to:

- obtain mycorrhizae that are more adaptable to various conditions
- select spores of the required size only (between 45 microns and 100 microns).

The active fraction of Trichoderma and rhizosphere Bacteria is then added to the formulation to obtain a synergistic action in the root system.





The benefits of using COLONIZER TR10

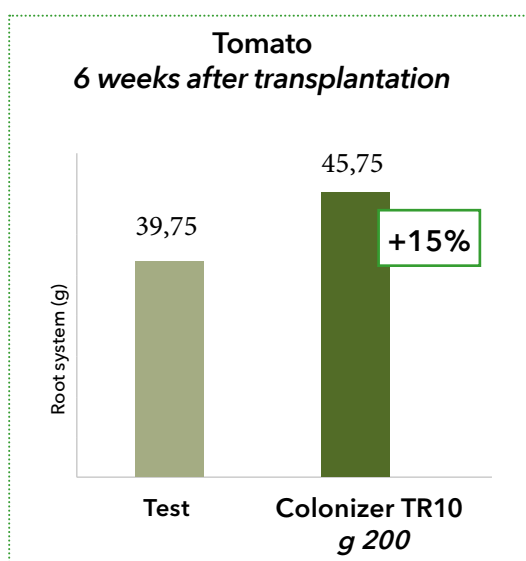
- **Increased root system** resulting in improved nutrient assimilation.
- **Improved overall soil fertility** that provides benefits for crop rotation and increased storage of Carbon in the soil.
- **Greater drought resistance.**
- **Resistance to climatic stresses** and, indirectly, to **fungal diseases.**
- **Solubilisation of Phosphorus** from the soil to the plant.
- **Better soil structure:** the soil is less prone to erosion.

Organic nitrogen (N), supplied by selected organic matrices, enhances and accelerates the performance of COLONIZER TR10.

This is why we recommend using mycorrhizae in combination with TRIOSTIM, a multi-matrix product with a powerful synergistic action.
Dose: 3 l/Ha, by fertigation.



Application tests of COLONIZER TR10 *root growth*



Root growth
CHECK



Root growth
COLONIZER 200 g



COLONIZER TR10



PRODUCT WITH SPECIFIC ACTION: MYCORRHIZAL INOCULANT

Type of organic soil improver: Single, non-composted plant improver

- Improves the assimilation of nutrients already present in the soil.
- Revitalises fertility in heavily exploited and 'exhausted' soils.
- Creates unfavourable conditions for the spread of a wide range of fungi and bacteria capable of harming plant development.

FEATURES

COLONIZER TR10 is a speciality consisting of an endo-mycorrhiza based inoculant combined with natural strains of *Trichoderma asperellum* and rhizosphere Bacteria. COLONIZER TR10 is obtained through a freeze drying, concentration and mixing process with high production standards to ensure maximum efficacy, optimum solubilisation and distribution with traditional irrigation equipment.

The product is designed to improve soil characteristics and stimulate plant growth. The microbial components work in synergy to restore the balance in the root micro-environment with specific results: improving nutrient and water assimilation in the soil; increasing root system and rooting; revitalising fertility in heavily exploited and 'exhausted' soils; creating unfavourable conditions for the proliferation of a wide range of fungi and bacteria that can harm plant development.



Soil application

200 g/Ha

Average dose



COMPOSITION

Mycorrhiza content (M/M)	40% (W/W)
Rhizosphere bacteria content	1 X10 ⁵ U.F.C./g
Trichoderma content	1 x 10 ⁶ U.F.C./g



PACK SIZE

0.200 kg (bag: 10x200 g)



MISCIBILITY AND WARNINGS

The product is miscible with fertilisers. For information on pesticide compatibility, please contact the technical department that will be able to provide you with a special document. In any case, it is advisable to carry out preliminary compatibility tests.



FORMULATION

Powder



CROPS



APPLICATION PERIOD



DOSE



NOTES

CROPS	APPLICATION PERIOD	DOSE	NOTES
CEREALS, PULSES AND SUNFLOWERS	To be applied as a seed treatment or to be applied in the furrows.	100 g/Ha or up to 3 g/kg of seeds	---
Pomaceous and stone fruits, citrus fruits, olive trees, nut trees, mangoes, avocados, actinidia and other tropical and sub-tropical fruits.	At planting	200 g/600 trees	Dissolve 200 g in 30 litres of water. Apply 50 ml of suspension per plant directly to the roots, before closing the hole Note: Keep stirring the suspension.
	Fruit orchards from the second year onwards	200 g/Ha	Apply the first treatment at the beginning of the season and repeat the application after one month
Pomegranates, Table Grapes, Wine Grapes and other Climbing plants, Berries (*Excluding blueberries), Hops	At planting	200 g/1200 plants	Dissolve 200 g in 30 litres of water. Apply 25 ml of suspension per plant directly to the roots, before closing the hole. Note: Keep stirring the suspension
	Fruit orchards from the second year onwards	200 g/Ha	Apply the first treatment at the beginning of the season and repeat the application after one month
Bulb vegetables, Root and stem vegetables, Leafy vegetables (*Excluding cabbage crops), Cucurbits, Fruiting vegetables, Tuber vegetables (only at sowing or transplanting), Ornamental plants	Apply the treatment 10 days after sprouting	200 g/m ³ of substrate At the seedbed	Mix evenly while dry using a concrete mixer or other suitable equipment immediately before filling the pots or alveolar trays.
	Sowing or transplanting*	200 g/Ha	Apply the first treatment directly after the transplant or 10 days after sprouting and repeat the application after one month