

# Mico-Pro

## MICROORGANISMS

For more resistant and productive crops

**Supports** plant health even under biotic stress conditions

**Stimulates** plant growth, promoting higher production

**Provides** microorganisms that optimize the metabolic processes of plants



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# Mico-Pro



## Characteristics

**Mico-Pro** is a microorganism-based product that, thanks to the innovative **MICO-SET**<sup>®</sup> technology, provides a targeted selection of beneficial microbial strains capable of acting synergistically to promote plant well-being and growth, even under stress conditions. In particular, the presence of various species of the *Bacillus* genus (*B. subtilis* OG39365\*, *B. amyloliquefaciens* OG33450\*, *B. pumilus* OG69589\*, *B. velezensis* OG58369\*, *B. megaterium* OG96536\*) as well as *Trichoderma harzianum* OG99566\* promotes the production of phytohormones, such as auxins, which stimulate root growth and improve the overall vegetative development of the plant. Furthermore, the *Bacillus* bacteria present in the consortium are particularly effective in optimizing the absorption of essential nutrients such as nitrogen, phosphorus, and potassium, enhancing the plant's nutritional efficiency. The **MICO-SET**<sup>®</sup> microbial consortium has, among other effects, the ability to hinder the development of harmful microorganisms, through the production of siderophores and bioactive molecules, and to induce the plant's systemic resistance (ISR/SAR), strengthening crop defences against biotic stress. Finally, thanks to the **TWIN PACK** formulation, the product's packaging includes a separate container for *Trichoderma harzianum* OG99566\* to avoid unwanted competition with other microorganisms, which could reduce their effective concentration in the composition and, consequently, the product's effectiveness in the field.

## Composition

|                                            | w/w (CFU/g)        | w/v (CFU/ml)       |                                     | w/w (CFU/g)        | w/v (CFU/ml)       |
|--------------------------------------------|--------------------|--------------------|-------------------------------------|--------------------|--------------------|
| Mycorrhizae ( <i>Glomus</i> spp.)          | 30%                | 36%                | <i>Bacillus subtilis</i> OG39365*   | $8.33 \times 10^7$ | $1.00 \times 10^8$ |
| <i>Bacillus amyloliquefaciens</i> OG33450* | $1.67 \times 10^6$ | $2.00 \times 10^6$ | <i>Bacillus pumilus</i> OG69589*    | $1.67 \times 10^6$ | $2.00 \times 10^6$ |
| <i>Bacillus velezensis</i> OG58369*        | $8.33 \times 10^7$ | $1.00 \times 10^8$ | <i>Bacillus megaterium</i> OG96536* | $1.67 \times 10^6$ | $2.00 \times 10^6$ |
| <i>Trichoderma harzianum</i> OG99566*      | $8.33 \times 10^6$ | $1.00 \times 10^7$ |                                     |                    |                    |

Raw materials: inoculum of endomycorrhizal fungi on sorghum roots, non-composted simple plant amendment, rhizospheric bacteria.  
\*Exclusive strain isolated and deposited by Organazoto in an international microbial collection.

## Doses and Instructions

| CROPS               | FOLIAR APPLICATION                                             | DOSE ml/hl* |
|---------------------|----------------------------------------------------------------|-------------|
| Horticultural crops | From the vegetative recovery stage or transplanting to harvest | 150 - 200   |
| Fruit trees         | From the vegetative growth stage to harvest                    | 150 - 200   |
| Ornamentals         | During the entire vegetative cycle                             | 150 - 200   |
| Industrial crops    | From the vegetative recovery stage or transplanting to harvest | 150 - 200   |

\* The doses are indicative and should be adjusted based on the characteristics of the area and the specific needs of each crop.

## Formulation

## Packaging

## Density (T=20°C)

## pH (sol. 6 %)

## Conductivity (sol. 10 %)

Soluble liquid

1-5 l

~ 1200 kg/m<sup>3</sup>

~ 4

~ 1.8 dS/m

## Warnings

It is recommended not to mix the product with chemical products in order to preserve its characteristics (it contains living organisms). Please store in sealed containers, in a cool, dry place, protected from light and heat (8°C < T < 25°C). Avoid contact with eyes and skin. Organazoto assumes no responsibility for improper storage and/or handling.

## Technical Notes



**MICO-SET**<sup>®</sup>



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