



# Mikro-Myco

[www.mikrobs.com](http://www.mikrobs.com)

## Mikro-Myco

Mycorrhizal Superpack



Best for:  
Root Growth  
Drought Tolerance  
Nutrients Uptake  
Higher Yield Rate



Contains more than 24 millions of Endo/Ecto mycorrhizae per 4 oz. with ample inclusion of rhizobacteria and beneficial fungi

net weight: 4 oz (113g)



*Healthier Growth,  
Higher Yield, while  
Restoring Our Earth*



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## **Mycorrhizal Fungi Combined with PSF & PGPR**

Mikro-Myco is a mycorrhizal superpack, offering an optimal combination of Endo Mycorrhizae (AMF-Arbuscular Mycorrhizal Fungi) 260 cfu/g, Ecto Mycorrhizae 218,000 cfu/g, Trichoderma (PSF-Phosphate Solubilizing Fungi) 750,000 cfu/g, and Bacillus (PGPR-Plant Growth Promoting Rhizobacteria) 400,000,000 cfu/g.

## **Bring Out the Full Potential of Mycorrhizae & Enrich Your Fertilizer Regimen**

Mycorrhizal fungi are widely known for their root and plant growth abilities. However, their capabilities are not limited to growth and can bring out synergistic outcomes when combined correctly with other microbes.

First, let's look at what other functions mycorrhizal fungi possess. A significant portion of nutrients absorbed by plants are fulfilled by AMF (Endo Mycorrhizae). Once inoculated to a plant, AMF penetrate the cortical cells of roots and build symbiotic relationships with plants. Plants provide AMF with sugar produced through photosynthesis and in return, AMF provide host plants with nutrients in soil via fungal hyphae. Roots can only absorb nutrients in limited areas of the root zone, whereas the finer and thinner structure of fungal hyphae have better access to soil pores and can explore larger soil volumes, resulting in a more efficient and effective structure for mining nutrients including one key nutrient- phosphate.

Most soils lack phosphorus in their natural state. This is due to the fact that phosphorus is fixed as insoluble iron and aluminum phosphates in acidic soils or as calcium phosphates in alkaline soils. Soil microbes such as pseudomonas, bacillus,

aspergillus, trichoderma, and penicillium play an important role in solubilizing 'fixed phosphate' into accessible phosphate in the form of dihydrogen phosphate or hydrogen phosphate. They do this by producing organic acids- gluconic, citric, oxalic, lactic, isovaleric, succinic, glycolic, acetic, etc., through chelation and mineralization via alkaline/acid phosphatases. AMF then absorb and transport the solubilized phosphate back to the roots, contributing to the plant's nutrient consumption.

Phosphate solubilization capacities of microbes vary highly depending on numerous conditions. In theory, mycorrhizal fungi are not much more than transporters of nutrients. Moreover, nutrients are not innately plentifully available in soil unless other soil bacteria and fungi work to produce and make them available. Yet, in many cases, mycorrhizae alone can prove to be effective because 1) most soils already contain microbes in their soil ecosystems and 2) most people apply additional nutrient supplements when applying mycorrhizae. However, when mycorrhizal fungi are effectively combined with other microbes, results can be further amplified, with the individual species synergistically interacting with each other both on a functional as well as a physiological level. One example of this synergistic interaction is the influence of AMF on the colonization of PSB (Phosphate Solubilizing Bacteria). Another example is how Bacillus and Trichoderma come together to contribute to AMF propagation.

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Together, the different supplemental microbes (Trichoderma and Bacillus) in Mikro-Myco work together with mycorrhizal fungi to 1) enhance nutrient uptake capacity of plants, 2) boost growth and health of plants & crops, and 3) reduce plant/transplant shock. The mycorrhizal blend brings about higher yield rates, drought tolerance, and soil ecosystem enhancement.

Healthier Growth,  
Higher Yield, while  
Restoring Our Earth



**Mikro-Myco**  
www.mikrobs.com

Highly concentrated, optimal blend of  
Mycorrhizae with Soil Microbes, yielding  
the best outcomes!



4 Species Endo  
Myco. (260 CFU/g)  
7 Species Ecto  
Myco. (218K CFU/g)

3 Species  
Trichoderma  
( $7.5 \times 10^5$ CFU/g)

4 Species  
Rhizobctria  
( $4 \times 10^8$ CFU/g)

**Nutrient Uptake  
Nutrient Mining  
Microbial  
Colonization**

**Phosphate  
Solubilization  
Nutrient  
Solubilization  
Root Expansion**

**Decomposition  
Nutrient  
Production  
Soil Fertility**

## Guaranteed Outcomes

Exponential Growth of  
Plants & Crops

Enhanced Drought  
Tolerance

Improved Root Systems

Higher Yield Rates

# Mikro-Myco

■ Bigger ■ Healthier ■ Greener

## Application Method

Soil Drench			
Target	Mix Rate	Application Rate	Interval
Plants	1 tsp (2.5g) / gallon of water	7-8 plants (1 gal. pot)	2 times at 7 days
Transplants	1 tbsp (5.0g) / gal.	7-8 plants (1ft overall height)	2 times at 7 days
Garden Bed	1 tsp (2.5g) - 1 tbsp (5.0g) / gal.	7-8 plants (1ft overall height)	2 times at 7 days
Root Dipping			
Target	Mix Rate	Application Method	Interval
Plants	1 oz / gallon of water	Dip roots prior to planting	At planting
Transplants		Dip roots prior to transplanting	At transplanting
Seed		Soak seeds prior to seeding	At seeding
Spray / Broadcast			
Target	Mix Rate	Application Rate	Interval
Seed Coat	1 tbsp (5.0g) / gallon of water	1 lb of Mikro-Myco for 1 ac.	At seeding
Lawn	1 tbsp (5.0g) / gal.	1 oz Mikro-Myco for 1,000 sq.ft	2 times at 14 days
Soil Restoration	1 tbsp (5.0g) / gal.	10 lbs Mikro-Myco for 1 ac.	2 times at 14 days
Dry Application			
Target	Amount of Application	Area of Application	Remarks
Plants	1 tsp (2.5g) - 1 tbsp (5.0g)	Planting Hole	Mikro-Myco powder should come in direct contact with roots
Transplants	1 tsp (2.5g) - 1 tbsp (5.0g)	Transplanting Hole	

## Ingredients

### Endo Mycorrhizae (260 cfu/g)

- . Glomus Intraradices..... 65 cfu/g
- . Glomus Mosseae..... 65 cfu/g
- . Glomus Aggregatum..... 65 cfu/g
- . Glomus Etunicatum..... 65 cfu/g

### Ecto Mycorrhizae (218,000 cfu/g)

- . Rhizopogon Villosulus..... 31,143 cfu/g
- . Rhizopogon Luteolus..... 31,143 cfu/g
- . Rhizopogon Amylopogon..... 31,143 cfu/g
- . Rhizopogon Fulvigleba..... 31,143 cfu/g
- . Pisolithus Tinctorius..... 31,143 cfu/g
- . Scleroderma Cepa..... 31,143 cfu/g
- . Scleroderma Citrinum..... 31,143 cfu/g

### Beneficial Fungi (7.5 x 10<sup>5</sup> cfu/g)

- . Trichoderma Harzianum..... 250,000 cfu/g
- . Trichoderma Viride..... 250,000 cfu/g
- . Trichoderma Longibrachiatum.. 250,000 cfu/g

### Rhizobacteria (4.0 x 10<sup>8</sup> cfu/g)

- . Bacillus licheniformis..... 1 x 10<sup>8</sup> cfu/g
- . Bacillus pumilis..... 1 x 10<sup>8</sup> cfu/g
- . Bacillus subtilis..... 1 x 10<sup>8</sup> cfu/g
- . Bacillus megaterium..... 1 x 10<sup>8</sup> cfu/g

## Available Sizes

- 2oz / 4oz Stand-up Pouch
- 5 lbs. / 25 lbs. Pail

## Storage

Keep it sealed and store in a cool & dry area. Avoid direct sunlight.

## Warranty

Microbial Applications, Inc., manufacturer and distributor of Mikro-Myco, offers a FULL refund without dispute if you return the product within 45 days of purchase. However, the customer will be liable for the return shipping fees. Refund process will be initiated upon receipt of returned product. Reimbursement will be processed through the original payment method. Disclaimer: We offer no guarantees concerning the use of this product other than what is indicated on the label.