

Endospor™ Dry Mix

Biofertilizer (Endomycorrhizae & beneficial bacteria)

Endomycorrhizal inoculant with beneficial bacteria for the treatment of the seeds of grains and leguminous plants

Endospor™ Dry Mix is a microbial inoculant for grains and leguminous plants. The product contains the highly efficient endomycorrhizal fungus *Glomus intraradices* that rapidly colonizes the roots of a great variety of plant species. It boosts plant growth by increasing the plant's water and nutrient uptake. The blend also contains beneficial bacteria that stimulate a vigorous root growth and triggers a more complete colonization by mycorrhizal fungi. The bacteria also fix nitrogen and solubilize phosphorus which is otherwise inaccessible to the plant. This results in higher yields and savings on chemical fertilizer input. Each species of the different microorganisms is produced separately by incubation under strictly controlled and sterile conditions. This means that the endomycorrhizal fungi are not cultivated the traditional way inside plant roots and the bacteria are not produced by fermentation of manure. Incubation offers several advantages: There are no contaminations with undesired organisms, spore distribution is more even and the spore concentration and viability can be confirmed more easily. Apart from the application as a seedcoat **Endospor™ Dry Mix** can also be part of a blend of substrates or – mixed with water – applied via the irrigation system. It can therefore be applied successfully with all plants that form a symbiosis with endomycorrhizal fungi, including most vegetables, flowers, ornamental plants and fruit trees.

| Benefits: | Increases | Reduces |
|-----------|--|---|
| | Yield and production • Root growth • Absorption of water and nutrients | Fertilizer use • Diseases • Heat stress damage Losses from draught |

Compatibility:

Fertilizers: Avoid the use of more than 40ppm phosphorus 4-6 weeks before and after the application.

Fungicides: The following fungicides are compatible but must not be mixed in the same tank: Benomyl, Captafol, Captan, Carboxim, Chlorothalonil, Etridiazol, Folpet, Fosetyl-Al, Iprodion Mancozeb, Metalaxyl, Quintozene, Thiaphanate methyl, Thiram.

Avoid the use of other fungicides for 2-3 weeks before and after the application of the product.

Application:

Mix a minimum of 250g of **Endospor™ Dry Mix** with the seeds that are sown in 1Ha. If you do not use the product as a treatment for seeds, please note that the application is most effective when performed as soon as possible throughout the crop cycle. Established plants and cultures with low plant densities require higher product quantities per plant. Please ask for technical support in order to tailor the application to the needs of your crops and cultural practices. We will assist you in determining the best dosage and timing and the potential for savings on fertilizers.

Storage:

- Store in a cool, dry place.
- Avoid high temperatures and direct sunlight.
- Product shelf life is up to 18 months.

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| Ingredients: | Endomycorrhizal fungi: <i>Glomus intraradices</i> | minimum 33,000 spores/250g (132 spores/g) |
| | Beneficial bacteria (PGPR): Nitrogen fixing, phosphorus solubilizing and growth promoting rhizobacteria <i>Azospirillum brasilense, Azotobacter chroococcum, Bacillus megaterium, Pseudomonas fluorescens</i> | 2 billion CFU/250g (2x10 ⁹ CFU/g) CFU = Colony Forming Units |
| | Growth promoting vitamins | Biotin, acid folic, B, B2, B3, B6, B7, B12, C y K |
| | Aminoacids | Plant protein |
| | Soluble yucca extract | <i>Yucca schidigera</i> |
| | Soluble seaweed extract | <i>Ascophyllum nodosum</i> |