

Organ-Seed

MICROORGANISMS

For a stronger and healthier plant
starting from the seed

Enhances germination and stress resistance

Promotes root system development and increases yield and
production quality

Contributes to biological nitrogen fixation and improves the
availability of phosphorus and other nutrients.



organazoto

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Organ-Seed

Characteristics

Organ-Seed is a microbiological seed coating product designed to support plant development from the earliest stages of germination thanks to the exclusive **MICO-SET®** technology, based on a consortium of beneficial microorganisms, including rhizospheric bacteria and mycorrhizal fungi. The mycorrhizae in the formulation expand the root surface area, significantly increasing the absorption of water and nutrients. Nitrogen-fixing bacteria, such as *Azotobacter chroococcum* OG15342* and *Azospirillum brasilense* OG19325*, contribute to the symbiotic fixation of atmospheric nitrogen, making it available to the plant and stimulating early germination and growth. Moreover, they increase the availability of other nutrients, particularly phosphorus, by converting it from insoluble forms into forms that are easily assimilated by the plant, thus contributing to optimal nutrition. Strains of *Bacillus polymyxa* OG22596*, *Bacillus pumilus* OG69589*, and *Bacillus velezensis* OG58369* further support root and vegetative development through the production of natural phytohormones (auxins, gibberellins, cytokinins). These bacteria rapidly colonize the rhizosphere, exerting a competitive effect against pathogens, preventing their establishment and inducing the plant's endogenous defence system (ISR). **Organ-Seed** is therefore a valid alternative to traditional chemical seed coatings, as it enhances germination, stimulates initial growth, and supports plant development, with positive effects on yield and production quality. Thanks to its completely natural composition and ease of use, it represents a sustainable and residue-free solution, ideal for organic and integrated agriculture programs, adhering perfectly to the seed and coating it evenly including the natural blue-coloured tracer.

Composition

	w/w (CFU/g)	w/v (CFU/ml)		w/w (CFU/g)	w/v (CFU/ml)
Mycorrhizae (<i>Glomus</i> spp.)	10%	12%	<i>Azotobacter chroococcum</i> OG15342*	8.33×10^6	1.00×10^8
<i>Azospirillum brasilense</i> OG19325*	8.33×10^6	1.00×10^8	<i>Bacillus polymyxa</i> OG22596*	8.33×10^6	1.00×10^8
<i>Bacillus pumilus</i> OG69589*	8.33×10^6	1.00×10^8	<i>Bacillus velezensis</i> OG58369*	8.33×10^6	1.00×10^8

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

Cereals and legumes

DOSE*

Dilute 2.5-4 l of Organ-Seed in a maximum of 10 l of water for every 1000 kg of seed

*The product is ready to use and can be mixed directly with the seeds until a homogeneous distribution is obtained. The doses mentioned above are indicative and may vary based on the characteristics of the seed.

Formulation

Soluble liquid

Packaging

1-5-20-1000 l

Density (T=20°C)

~ 1200 kg/m³

pH (sol. 6 %)

~ 5.5

Conductivity (sol. 10 %)

~ 0.1 dS/m

Warnings

Store in sealed packaging, in a cool, dry place away from sunlight and heat sources (8°C < T < 25°C). Avoid contact with eyes and skin. The product is stable at ordinary temperatures and pressures. It is advisable to apply the product alone. In case of mixing with other products, it is advisable to do preliminary miscibility and compatibility tests. The product is compatible with the most common insecticides, nematicides and chemical fertilizers. Microorganisms can cause sensitization reactions. Organazoto assumes no responsibility for improper storage and/or handling.

Technical Notes



SEED SOAKING
APPLICATION



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BIO

MICO-SET®



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