



IRA Biotech

Biomagic-D

Biological Protection Against Diseases

BIO MAGIC-D is a microbial soil amendment containing a consortium of naturally occurring beneficial microorganisms designed to enhance soil biological activity, improve root development, and support plant health under biotic stress.

Microorganisms are present in lyophilised (freeze-dried) dormant form, ensuring stability during storage. They become active upon exposure to moisture and favourable soil conditions. Stable across a broad range of conditions (pH-1.5–10 and temperatures up to 45°C), enabling performance in diverse environments.

Product Features

Mode of Action

- ❖ Suppresses soil-borne fungal and bacterial pathogens through competitive exclusion
- ❖ Produces antifungal and antibacterial metabolites
- ❖ Enhances rhizosphere microbial balance
- ❖ Improves root growth and nutrient uptake
- ❖ Induces plant systemic resistance (ISR)

Expected Results

- ❖ Improved root health and plant vigor within 4–7 days
- ❖ Reduced disease pressure with regular use
- ❖ Enhanced soil microbial activity and crop resilience

Safety Directions

- ❖ Avoid inhalation of dust or spray mist
- ❖ Wash hands after use
- ❖ Use in well-ventilated areas

Environmental Protection

- ❖ Contains naturally occurring microorganisms
- ❖ Do not contaminate waterways with product or container



Product Analysis:

Pediococcus Acidilactici.....	1.5%
Lactobacillus Acidophilus.....	1.5%
Dextrose.....	97%

Physical Characteristics:

White Powder, Water Soluble, pH: 5.5-8.5

Application:

Application Rate:

- ❖ 100 grams per hectare

Application Method:

- ❖ Soil application or via drip irrigation (fertigation)
- ❖ Dissolve 100 g in 700–1000 litres of water per hectare
- ❖ Apply uniformly to the root zone
- ❖ Foliar Spray 100g in 500 litres of water and spray for 1 hectare

Compatibility:

Compatible with most organic inputs. Avoid mixing with chemical fungicides, bactericides, or disinfectants.

Storage

- ❖ Store below 30°C in a cool, dry place
- ❖ Keep container tightly closed
- ❖ Protect from direct sunlight

