

# Bacillus Mucilaginosus Biofertilizer

This product strain is isolated from plant rhizosphere soil. It exhibits rapid reproduction, easy survival, and strong environmental stress resistance.



## Product Overview

### Bio-Active Soil Amendment

Bacillus Mucilaginosus is a potent plant endophytic strain isolated from rhizosphere soil, designed to enhance agricultural productivity. It features rapid reproduction and strong environmental resilience, making it an effective biofertilizer. By solubilizing phosphorus, potassium, and silicon, it significantly improves nutrient availability and soil health, ultimately boosting crop yields and quality.

## Biological Mechanism

### Metabolic Outputs

- Organic Acids
- Amino Acids
- Polysaccharides
- Plant Growth Hormones
- Carbonic Anhydrase

### Key Functions

Phosphorus Solubilization, Potassium Release, Silicon Dissolution, Nitrogen Fixation, Carbon Dioxide Fixation

## Agricultural Benefits

### Benefits for Crops

Enhanced Nutrient Uptake • Improved Soil Structure • Increased Yield • Disease Resistance • Pathogen Inhibition

## Technical Characteristics

### Strain Characteristics

- Endophytic strain
- Fast reproduction rate
- High environmental compatibility
- Strong adversity resistance

### Mineral Decomposition Capabilities

Mineral Source	Released Nutrient
Feldspar	Potassium/Silicon
Mica	Potassium/Silicon
Apatite	Phosphorus