

# Bacillus Megaterium Biofertilizer for Soil Enrichment

Bacillus megaterium is a gram-positive, aerobic bacterium that effectively degrades organic phosphorus in soil. It is commonly used in biological organic fertilizers for producing phosphorus-resolving and potash-fixing fertilizers.



## Product Overview

### Bacillus Megaterium Biofertilizer

Bacillus megaterium is a potent, gram-positive, aerobic bacterium widely utilized in sustainable agriculture for soil enrichment. It acts as a highly effective biofertilizer by solubilizing organic phosphorus and fixing potash, making essential nutrients readily available for plant uptake. Beyond nutrition, it improves soil structure and forms a protective barrier against pathogens, enhancing overall crop health and economic yield.

## Biological Properties

### Safety Profile

Safe • Non-toxic

### Bacterial Type

Gram-positive, aerobic bacteria

### Key Functions

Phosphorus Solubilization, Potash Fixing, Soil Aggregate Improvement, Pathogen Resistance

## Performance Metrics

### Growth & Yield Benefits

- Rapid reproduction and strong vitality
- Enhanced leaf photosynthesis
- Increased carbohydrate content
- Improved plant tissue fibrosis and lignification
- Formation of protective horny double silicon layer

### Mechanism of Action

#### 1 via polysaccharides

Soil Aggregate Improvement

#### 1 barrier formation

Disease Suppression