Bacillus Licheniformis Biofertilizer

Bacillus licheniformis is a gram-positive bacterium used in agriculture as a biofertilizer. It enhances plant growth by improving nutrient availability and suppressing plant pathogens.

Product Overview

Bacillus Licheniformis Biofertilizer

Bacillus licheniformis is a highly effective, Gram-positive biofertilizer designed to optimize soil health and crop productivity. Once applied, this beneficial bacterium rapidly colonizes the rhizosphere, creating a dominant microbial population that suppresses harmful pathogens through competition and the production of antibacterial proteins. Beyond disease control, it actively degrades complex organic matter and pesticide residues, while helping to remediate heavy metal pollution like cadmium, ultimately leading to higher crop yields and improved agricultural quality.

Biological Mechanism

Mode of Action

- Rapid colonization of soil and rhizosphere
- Competitive inhibition of pathogens
- Production of antibiotics and bacteriocins
- Secretion of cell wall degrading enzymes
- Degradation of macromolecular organic matter

Enzymatic Activity	Protease, Amylase, Lipase

Agricultural Benefits

Key Benefits

Soil nutrient activation • Pesticide residue degradation • Heavy metal remediation • Pathogen suppression • Yield enhancement

Environmental Impact

1 Active	1 Active
Cadmium Remediation	Pesticide Degradation