

Bacillus Amyloliquefaciens for Agriculture

Bacillus amyloliquefaciens is a gram-positive bacterium with widespread distribution in nature. It promotes plant growth, controls plant diseases, and improves crop quality.



Product Overview

Natural Agricultural Solution

Bacillus amyloliquefaciens is a gram-positive, naturally occurring bacterium with significant potential in sustainable agriculture. By interacting with plant rhizospheres, it effectively promotes plant growth, enhances crop quality, and provides robust defense against various fungal diseases. This versatile biological agent also serves as an effective preservative for fruits and vegetables, extending shelf life and reducing susceptibility to spoilage.

Key Benefits

Primary Functions

- Promotes plant growth
- Controls plant diseases
- Improves crop quality
- Fruit and vegetable preservation
- Enhances nutrient availability

Mechanism of Action

Biological Mechanism

As a typical plant growth-promoting bacterium, it functions by secreting active substances such as antibacterial proteins, antibiotics, and enzymes. These substances create a wide range of resistance against pathogens on the surface of fruits and vegetables, while simultaneously stimulating plant development.

Secreted Active Substances

Antibacterial proteins, Antibiotics, Enzymes, Polypeptides

Applications

Application Areas

Soil Treatment • Plant Rhizosphere • Post-harvest Preservation • Crop Protection