

# **Agricultural Microbial Market By Microbe Type (Bacteria, Fungi, Viruses, Others) , By Crop Type (Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses, Others) By Formulation (Liquid, Dry) By Application (Soil Treatment, Seed Treatment, Foliar Spray, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

### **Agricultural Microbial Market**

The agricultural microbial market was valued at \$7.1 billion in 2023 and is projected to reach \$27.7 billion by 2033, growing at a CAGR of 14.7% from 2024 to 2033.

Agricultural microbial is a group of beneficial microorganisms used in agriculture to improve crop yields, boost plant growth, and manage pests & diseases. Microorganisms include fungi, bacteria, viruses, and protozoa. Both natural and genetically engineered microorganisms are utilized and administered to crops through seed treatments, soil amendments, or foliar sprays. Agricultural microbes are a critical part of sustainable farming as they enhance plant health and reduce the need for chemical fertilizers & pesticides, thereby contributing to environmental conservation.

Rapid transformation of agriculture from traditional practices using chemicals & fertilizers to eco-friendly practices is a key driver of the agricultural microbial market. Moreover, rise in demand for food security and surge in government support in the form of incentives is surging the demand for agricultural microbes. A key trend emerging in the market is the usage of cutting-edge technologies such as functional omics and high throughput sequencing to propel the discovery of new microbes and understand

their complex role in agricultural activities.

Despite the popularity, the adoption rate of agricultural microbials is slow compared to chemical fertilizers, thereby hampering the market's growth. This slow adoption is attributed to the high cost of microbials and lack of awareness among small-scale farmers. On the contrary, constant explorations by scientists for the development of innovative microbial consortia indicate a promising future for the market. These consortia are projected to elevate the nutrient uptake and resilience of crops. Furthermore, introduction of smart delivery systems such as encapsulation is anticipated to boost the adoption of microbiomes and open new avenues for the market.

## Segment Review

The agricultural microbial market is segmented into microbe type, crop type, formulation, application, and region. On the basis of microbe type, the market is divided into bacteria, fungi, viruses, and others. As per crop type, it is classified into cereals & grains, fruits & vegetables, oilseeds & pulses, and others. Depending on formulation, it is bifurcated into liquid and dry. By application, it is categorized into soil treatment, seed treatment, foliar spray, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of microbe type, the bacteria segment is expected to dominate the market throughout the forecast period.

As per crop type, the cereals & grains segment is anticipated to be the highest shareholder by 2033.

Depending on formulation, the liquid segment is predicted to acquire high stakes during the forecast period.

By application, the soil treatment segment is projected to hold a high share of the market throughout the forecast period.

Region wise, Asia-Pacific is expected to be the highest revenue generator by 2033.

## Competition Analysis

The major players operating in the global agricultural microbial market include Bayer AG, BASF SE, Syngenta AG, Corteva, Novozymes A/S, Dow, Marrone BioInnovations, Certis USA L.L.C., Valent U.S.A., and BioWorks, Inc. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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Investment Opportunities

Product Benchmarking / Product specification and applications

Product Life Cycles

Upcoming/New Entrant by Regions

Technology Trend Analysis

Average Consumer Expenditure

Consumer Preference and Product Specifications

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Product Consumption Analysis

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Microbe Type

Bacteria

Fungi

Viruses

Others

#### By Crop Type

Cereals Grains

Fruits Vegetables

Oilseeds Pulses

Others

#### By Formulation

Liquid

Dry

#### By Application

Soil Treatment

Seed Treatment

Foliar Spray

Others

#### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Bayer AG

BASF SE

Syngenta AG

Corteva

Novozymes A/S

Dow

Marrone BioInnovations

Certis USA L.L.C.

Valent U.S.A.

BioWorks, Inc

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