

**Agricultural Microbial Market Report by Type (Bacteria, Fungi, Virus, and Others),
Formulation (Dry, Liquid), Application Method (Soil Amendment, Crop Protection),
Function (Foliar Spray, Soil Treatment, Seed Treatment, and Others), Crop Type
(Cereals, Oilseeds and Pulses, Fruits and Vegetables, and Others), and Region
2025-2033**

Market Report | 2025-04-01 | 135 pages | IMARC Group

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Report description:

The global agricultural microbial market size reached USD 10.6 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 25.6 Billion by 2033, exhibiting a growth rate (CAGR) of 9.79% during 2025-2033. The market is experiencing significant growth driven by increasing pressure from the consumer and regulatory agency for sustainable farming practices, heightening demand to improve the yields in farming and food production to feed a rising population, and escalating awareness and stringent policy on the impact of chemical inputs such as pesticides and fertilizers.

Agricultural microbials are microorganisms that are used in various agricultural practices to improve crop productivity and quality of yield. They comprise bacteria, archaea, yeasts, molds, algae, protozoa, and viruses. They enhance the ability of crops to resist temperature, ultraviolet (UV) radiation, salinity, floods, drought, and damage caused by insects, herbivores, nematodes, fungi, bacteria, or weeds. They assist in increasing rhizobacterial promotion of plant growth by providing various nutrients, such as phosphorous and nitrogen. They also aid in balancing plant hormones, producing stress-protective compounds, and reducing various plant diseases. In addition, agricultural microbials are widely used to maintain fertility and improve the quality of the soil.

Agricultural Microbial Market Trends:

The growing awareness among the masses about the benefits of using agricultural microbials in farming, such as the decomposition of organic matter, recycling of old agricultural material, and improving plant health, represents one of the key

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factors driving the market. Besides this, there is a rise in the demand for sustainable agricultural practices to maintain soil quality, reduce soil erosion, and preserve fresh water. This, along with the burgeoning agriculture industry, is contributing to the growth of the market. In addition, the escalating demand for organic farming to reduce the risk of environmental pollution and greenhouse gas emissions is offering lucrative growth opportunities to industry investors. Moreover, increasing investments by key market players to introduce automated greenhouse facilities with the most innovative, sustainable, and technically advanced crop protection solutions are positively influencing the market. Apart from this, the rising demand for the liquid formulation of agricultural microbials due to their ease of application is propelling the growth of the market. Additionally, the escalating demand for agricultural microbials to enhance nitrogen fixation, promotion of shoot and root growth, and disease control in plants are bolstering the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on type, formulation, application method, function, and crop type.

Breakup by Type:

- Bacteria
- Fungi
- Virus
- Others

Breakup by Formulation:

- Dry
- Liquid

Breakup by Application Method:

- Soil Amendment
- Crop Protection

Breakup by Function:

- Foliar Spray
- Soil Treatment
- Seed Treatment
- Others

Breakup by Crop Type:

- Cereals
- Oilseeds and Pulses
- Fruits and Vegetables
- Others

Breakup by Region:

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- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others
- Europe
- Germany
- France
- United Kingdom
- Italy
- Spain
- Russia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AgBiome, BASF SE, Bayer AG, Cargill Incorporated, Certis USA LLC, Chr. Hansen A/S, DuPont de Nemours Inc., Koppert Biological Systems, Marrone Bio Innovations (Bioceres Crop Solutions), Novozymes A/S (Novo Holdings A/S), Nufarm Limited, Sumitomo Chemical Co. Ltd. and Syngenta AG.

Key Questions Answered in This Report

- 1.What was the size of the global agricultural microbial market in 2024?
- 2.What is the expected growth rate of the global agricultural microbial market during 2025-2033?
- 3.What are the key factors driving the global agricultural microbial market?
- 4.What has been the impact of COVID-19 on the global agricultural microbial market?
- 5.What is the breakup of the global agricultural microbial market based on the type?
- 6.What is the breakup of the global agricultural microbial market based on the formulation?
- 7.What is the breakup of the global agricultural microbial market based on the application method?
- 8.What is the breakup of the global agricultural microbial market based on the function?
- 9.What are the key regions in the global agricultural microbial market?
- 10.Who are the key players/companies in the global agricultural microbial market?

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