

Global Agriculture Microbial Market Size Study & Forecast, by Product (Bacteria, Fungi), Formulation (Liquid, Dry), Application (Foliar, Soil), Crop Type (Cereals & Grains, Oilseeds & Pulses) and Regional Forecasts 2025-2035

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Abstracts

The Global Agriculture Microbial Market, valued at nearly USD 6.63 billion in 2024, is anticipated to expand rapidly with a CAGR exceeding 14.20% throughout the 2025-2035 forecast horizon. Agriculture microbials—naturally occurring beneficial microorganisms—have steadily transformed into indispensable components of modern farming as producers across the globe strive to boost yields, protect soil health, and reduce chemical dependency. These microbes, whether bacteria or fungi, are utilized to catalyze nutrient uptake, enhance plant resilience, and stimulate biological processes that fortify crop performance. The market's growth is reinforced by the rising push toward sustainable agricultural practices, tightening restrictions on harmful agrochemicals, and an increasing call from consumers for food cultivated with minimal ecological footprint. As climate stressors intensify and soil degradation becomes a global concern, agriculture microbials have evolved into strategic tools that help farmers rebuild soil biodiversity while simultaneously improving productivity.

The acceleration in microbial adoption has been further magnified by farmers' growing awareness of regenerative farming and biological crop protection. With heavy metal residues and resistant pests becoming persistent threats, growers have gradually shifted toward microbe-driven solutions that foster plant immunity while supporting long-term soil fertility. The market has also gained a strong tailwind from innovation in strain development, carrier technologies, and precision delivery mechanisms—allowing microbials to be applied with greater reliability and efficacy than ever before. Although synthetic fertilizers and chemical pesticides continue to maintain a notable presence in

global farming systems, the rising demand for residue-free crops and biologically active soils is reshaping investment priorities and steering the sector toward high-performance microbial technologies throughout the forecast period of 2025-2035.

The detailed segments and sub-segments included in the report are:

By Product:

Bacteria

Fungi

By Formulation:

Liquid

Dry

By Application:

Foliar

Soil

By Crop Type:

Cereals & Grains

Oilseeds & Pulses

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Bacteria Are Expected to Dominate the Market

Among all product segments, bacteria are anticipated to hold the dominant position due to their widespread utilization across crop categories and their proven ability to facilitate nutrient cycling, nitrogen fixation, and pathogen suppression. Their adaptability across diverse agro-climatic conditions and the abundance of scientifically validated strains—particularly in biofertilizers and biostimulants—have positioned bacterial microbials as the backbone of the industry. While fungi are emerging as highly valuable in soil remediation and disease suppression, bacterial microbials continue to be preferred as primary biological enhancers owing to their rapid colonization and consistent performance across large-scale farming operations.

Liquid Formulations Lead in Revenue Contribution

Liquid microbial formulations currently contribute the highest revenue to the market, primarily because they are easier to apply, offer longer microbial viability, and integrate seamlessly into existing irrigation and foliar spray systems. These formulations allow farmers to deploy microbials with minimal labor while ensuring maximum contact efficiency and enhanced microbial activity. Dry formulations are, however, projected to experience strong growth as they offer extended shelf life, cost-friendly transportation, and are increasingly engineered with advanced encapsulation technologies that improve microbial stability. Thus, while liquid formulations dominate in revenue today, the adoption of dry formulations is accelerating rapidly as manufacturers refine delivery systems suited for global distribution.

The regional outlook for the Agriculture Microbial Market reveals substantial differences

in adoption dynamics. North America maintained the leading market share in 2025, supported by its technologically advanced farming practices, stringent chemical-use regulations, and rapid integration of biological solutions within large-scale commercial agriculture. Europe continues to drive sustainability mandates, propelling microbial usage under its “Farm to Fork” strategy, which encourages biological alternatives to synthetic chemicals. Asia Pacific is projected to be the fastest-growing region, fueled by rising food demand, expanding acreage under high-value crops, and government-backed initiatives promoting sustainable farming in countries like China and India. Latin America, with its extensive soybean and sugarcane cultivation, is increasingly adopting microbials to improve soil fertility and yield consistency, while the Middle East & Africa is gradually scaling up microbial use to counter soil salinity and boost food security.

Major market players included in this report are:

BASF SE

Novozymes A/S

UPL Limited

Bayer AG

Syngenta Group

Marrone Bio Innovations

Certis Biologicals

Koppert Biological Systems

Valent BioSciences

IPL Biologicals

Chr. Hansen Holding A/S

Verdesian Life Sciences

Andermatt Group AG

Bioworks Inc.

Sumitomo Chemical Co., Ltd.

Global Agriculture Microbial Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments and countries in recent years and to forecast the values for the coming years. The report aims to merge quantitative data with qualitative insights to outline the essential market drivers, emerging challenges, and long-term opportunities shaping the global Agriculture Microbial Market. It also provides a comprehensive evaluation of competitive strategies, product pipelines, and the evolving regulatory landscape influencing microbial innovation. The detailed segments and sub-segments of the market are explained below.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL AGRICULTURE MICROBIAL MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

CHAPTER 3. GLOBAL AGRICULTURE MICROBIAL MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global Agriculture Microbial Market (2024-2035)
- 3.2. Drivers
 - 3.2.1. rising push toward sustainable agricultural practices
 - 3.2.2. tightening restrictions on harmful agrochemicals
- 3.3. Restraints
 - 3.3.1. Shortage Of Skilled Professionals
- 3.4. Opportunities
 - 3.4.1. increasing call from consumers for food cultivated with minimal ecological footprint

CHAPTER 4. GLOBAL AGRICULTURE MICROBIAL INDUSTRY ANALYSIS

Global Agriculture Microbial Market Size Study & Forecast, by Product (Bacteria, Fungi), Formulation (Liquid,...

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AGRICULTURE MICROBIAL MARKET SIZE & FORECASTS BY PRODUCT 2025-2035

- 5.1. Market Overview
- 5.2. Global Agriculture Microbial Market Performance - Potential Analysis (2025)
- 5.3. Bacteria
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Fungi
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.4.2. Market size analysis, by region, 2025-2035

CHAPTER 6. GLOBAL AGRICULTURE MICROBIAL MARKET SIZE & FORECASTS BY FORMULATION 2025-2035

- 6.1. Market Overview
- 6.2. Global Agriculture Microbial Market Performance - Potential Analysis (2025)
- 6.3. Liquid

- 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
- 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Dry
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.4.2. Market size analysis, by region, 2025-2035

CHAPTER 7. GLOBAL AGRICULTURE MICROBIAL MARKET SIZE & FORECASTS BY APPLICATION 2025–2035

- 7.1. Market Overview
- 7.2. Global Agriculture Microbial Market Performance - Potential Analysis (2025)
- 7.3. Foliar
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.3.2. Market size analysis, by region, 2025-2035
- 7.4. Soil
 - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.4.2. Market size analysis, by region, 2025-2035

CHAPTER 8. GLOBAL AGRICULTURE MICROBIAL MARKET SIZE & FORECASTS BY CROP TYPE 2025–2035

- 8.1. Market Overview
- 8.2. Global Agriculture Microbial Market Performance - Potential Analysis (2025)
- 8.3. Cereals & Grains
 - 8.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.3.2. Market size analysis, by region, 2025-2035
- 8.4. Oilseeds & Pulses
 - 8.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.4.2. Market size analysis, by region, 2025-2035

CHAPTER 9. GLOBAL AGRICULTURE MICROBIAL MARKET SIZE & FORECASTS BY REGION 2025–2035

- 9.1. Growth Agriculture Microbial Market, Regional Market Snapshot
- 9.2. Top Leading & Emerging Countries
- 9.3. North America Agriculture Microbial Market
 - 9.3.1. U.S. Agriculture Microbial Market
 - 9.3.1.1. Product breakdown size & forecasts, 2025-2035
 - 9.3.1.2. Formulation breakdown size & forecasts, 2025-2035

- 9.3.1.3. Application breakdown size & forecasts, 2025-2035
- 9.3.1.4. Crop type breakdown size & forecasts, 2025-2035
- 9.3.2. Canada Agriculture Microbial Market
 - 9.3.2.1. Product breakdown size & forecasts, 2025-2035
 - 9.3.2.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.3.2.3. Application breakdown size & forecasts, 2025-2035
 - 9.3.2.4. Crop type breakdown size & forecasts, 2025-2035
- 9.4. Europe Agriculture Microbial Market
 - 9.4.1. UK Agriculture Microbial Market
 - 9.4.1.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.1.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.1.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.1.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.4.2. Germany Agriculture Microbial Market
 - 9.4.2.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.2.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.2.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.2.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.4.3. France Agriculture Microbial Market
 - 9.4.3.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.3.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.3.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.3.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.4.4. Spain Agriculture Microbial Market
 - 9.4.4.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.4.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.4.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.4.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.4.5. Italy Agriculture Microbial Market
 - 9.4.5.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.5.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.5.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.5.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.4.6. Rest of Europe Agriculture Microbial Market
 - 9.4.6.1. Product breakdown size & forecasts, 2025-2035
 - 9.4.6.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.4.6.3. Application breakdown size & forecasts, 2025-2035
 - 9.4.6.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5. Asia Pacific Agriculture Microbial Market

- 9.5.1. China Agriculture Microbial Market
 - 9.5.1.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.1.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.1.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.1.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5.2. India Agriculture Microbial Market
 - 9.5.2.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.2.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.2.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.2.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5.3. Japan Agriculture Microbial Market
 - 9.5.3.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.3.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.3.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.3.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5.4. Australia Agriculture Microbial Market
 - 9.5.4.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.4.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.4.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.4.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5.5. South Korea Agriculture Microbial Market
 - 9.5.5.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.5.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.5.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.5.4. Crop type breakdown size & forecasts, 2025-2035
- 9.5.6. Rest of APAC Agriculture Microbial Market
 - 9.5.6.1. Product breakdown size & forecasts, 2025-2035
 - 9.5.6.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.5.6.3. Application breakdown size & forecasts, 2025-2035
 - 9.5.6.4. Crop type breakdown size & forecasts, 2025-2035
- 9.6. Latin America Agriculture Microbial Market
 - 9.6.1. Brazil Agriculture Microbial Market
 - 9.6.1.1. Product breakdown size & forecasts, 2025-2035
 - 9.6.1.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.6.1.3. Application breakdown size & forecasts, 2025-2035
 - 9.6.1.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.6.2. Mexico Agriculture Microbial Market
 - 9.6.2.1. Product breakdown size & forecasts, 2025-2035
 - 9.6.2.2. Formulation breakdown size & forecasts, 2025-2035

- 9.6.2.3. Application breakdown size & forecasts, 2025-2035
- 9.6.2.4. Crop type breakdown size & forecasts, 2025-2035
- 9.7. Middle East and Africa Agriculture Microbial Market
 - 9.7.1. UAE Agriculture Microbial Market
 - 9.7.1.1. Product breakdown size & forecasts, 2025-2035
 - 9.7.1.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.7.1.3. Application breakdown size & forecasts, 2025-2035
 - 9.7.1.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.7.2. Saudi Arabia (KSA) Agriculture Microbial Market
 - 9.7.2.1. Product breakdown size & forecasts, 2025-2035
 - 9.7.2.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.7.2.3. Application breakdown size & forecasts, 2025-2035
 - 9.7.2.4. Crop type breakdown size & forecasts, 2025-2035
 - 9.7.3. South Africa Agriculture Microbial Market
 - 9.7.3.1. Product breakdown size & forecasts, 2025-2035
 - 9.7.3.2. Formulation breakdown size & forecasts, 2025-2035
 - 9.7.3.3. Application breakdown size & forecasts, 2025-2035
 - 9.7.3.4. Crop type breakdown size & forecasts, 2025-2035

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. BASF SE
 - 10.2.1. Company Overview
 - 10.2.2. Key Executives
 - 10.2.3. Company Snapshot
 - 10.2.4. Financial Performance (Subject to Data Availability)
 - 10.2.5. Product/Services Port
 - 10.2.6. Recent Development
 - 10.2.7. Market Strategies
 - 10.2.8. SWOT Analysis
- 10.3. Novozymes A/S
- 10.4. UPL Limited
- 10.5. Bayer AG
- 10.6. Syngenta Group
- 10.7. Marrone Bio Innovations
- 10.8. Certis Biologicals
- 10.9. Koppert Biological Systems
- 10.10. Valent BioSciences

- 10.11. IPL Biologicals
- 10.12. Chr. Hansen Holding A/S
- 10.13. Verdesian Life Sciences
- 10.14. Andermatt Group AG
- 10.15. Bioworks Inc.
- 10.16. Sumitomo Chemical Co., Ltd.

List Of Tables

LIST OF TABLES

- Table 1. Global Agriculture Microbial Market, Report Scope
- Table 2. Global Agriculture Microbial Market Estimates & Forecasts By Region 2024–2035
- Table 3. Global Agriculture Microbial Market Estimates & Forecasts By Segment 2024–2035
- Table 4. Global Agriculture Microbial Market Estimates & Forecasts By Segment 2024–2035
- Table 5. Global Agriculture Microbial Market Estimates & Forecasts By Segment 2024–2035
- Table 6. Global Agriculture Microbial Market Estimates & Forecasts By Segment 2024–2035
- Table 7. Global Agriculture Microbial Market Estimates & Forecasts By Segment 2024–2035
- Table 8. U.S. Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 9. Canada Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 10. UK Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 11. Germany Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 12. France Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 13. Spain Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 14. Italy Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 15. Rest Of Europe Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 16. China Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 17. India Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 18. Japan Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 19. Australia Agriculture Microbial Market Estimates & Forecasts, 2024–2035
- Table 20. South Korea Agriculture Microbial Market Estimates & Forecasts, 2024–2035
-

List Of Figures

LIST OF FIGURES

- Fig 1. Global Agriculture Microbial Market, Research Methodology
 - Fig 2. Global Agriculture Microbial Market, Market Estimation Techniques
 - Fig 3. Global Market Size Estimates & Forecast Methods
 - Fig 4. Global Agriculture Microbial Market, Key Trends 2025
 - Fig 5. Global Agriculture Microbial Market, Growth Prospects 2024–2035
 - Fig 6. Global Agriculture Microbial Market, Porter’s Five Forces Model
 - Fig 7. Global Agriculture Microbial Market, Pestel Analysis
 - Fig 8. Global Agriculture Microbial Market, Value Chain Analysis
 - Fig 9. Agriculture Microbial Market By Application, 2025 & 2035
 - Fig 10. Agriculture Microbial Market By Segment, 2025 & 2035
 - Fig 11. Agriculture Microbial Market By Segment, 2025 & 2035
 - Fig 12. Agriculture Microbial Market By Segment, 2025 & 2035
 - Fig 13. Agriculture Microbial Market By Segment, 2025 & 2035
 - Fig 14. North America Agriculture Microbial Market, 2025 & 2035
 - Fig 15. Europe Agriculture Microbial Market, 2025 & 2035
 - Fig 16. Asia Pacific Agriculture Microbial Market, 2025 & 2035
 - Fig 17. Latin America Agriculture Microbial Market, 2025 & 2035
 - Fig 18. Middle East & Africa Agriculture Microbial Market, 2025 & 2035
 - Fig 19. Global Agriculture Microbial Market, Company Market Share Analysis (2025)
-

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