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Mycorrhiza Biofertilizers Market Forecasts to 2032 – Global Analysis By Type (Ectomycorrhiza, Endomycorrhiza and Other Types), Form (Solid Biofertilizers and Liquid Biofertilizers), Crop Type, Microorganism, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Mycorrhiza Biofertilizers Market is accounted for $1.13 billion in 2025 and is expected to reach $2.50 billion by 2032 growing at a CAGR of 12.04% during the forecast period. Mycorrhiza biofertilizers are natural soil amendments that contain beneficial fungi forming symbiotic associations with plant roots, enhancing nutrient uptake and overall plant health. These fungi, primarily carbuncular and Ectomycorrhiza types, extend the root system through specialized hyphen that increase the absorption of water, phosphorus, nitrogen, and essential micronutrients from the soil. By improving soil structure and fertility, they reduce dependency on chemical fertilizers while promoting sustainable agriculture. Mycorrhiza biofertilizers also help plants tolerate environmental stresses such as drought, salinity, and soil-borne pathogens. Widely applied in crops, horticulture, and forestry, they support eco-friendly farming practices and long-term soil productivity.

Market Dynamics:

Driver:

Growing demand for sustainable & organic agriculture

Farmers are increasingly adopting eco-friendly practices to reduce chemical fertilizer

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dependency and enhance soil health. Mycorrhiza biofertilizers improve nutrient absorption, promote plant growth, and restore soil fertility naturally. Rising consumer preference for organic food creates pressure on producers to shift toward biological inputs. Government initiatives supporting organic farming further accelerate market adoption. Overall, the trend toward sustainable farming strongly boosts demand for mycorrhiza biofertilizers worldwide.

Restraint:

Limited awareness and knowledge among farmers

Farmers often rely on traditional chemical fertilizers due to lack of proper education on biofertilizers. Misconceptions about the effectiveness of mycorrhiza products further discourage adoption. Insufficient extension services and training programs restrict the dissemination of accurate information. Smallholder farmers in developing regions especially face challenges in accessing reliable knowledge sources. As a result, the low understanding slows market penetration and limits the overall demand for mycorrhiza biofertilizers.

Opportunity:

Consumer demand for healthier, nutrient-rich produce

Mycorrhiza biofertilizers improve soil health by supporting natural fertility, which helps produce crops with greater nutritional content. Increasing health awareness among consumers pushes farmers to replace chemical fertilizers with sustainable practices. These biofertilizers support better absorption of key minerals such as phosphorus and micronutrients. The outcome is improved crop quality that meets consumer demand for safe and nutrient-rich food. Rising preference for healthier diets drives steady growth in the mycorrhiza biofertilizers market.

Threat:

Competition from established chemical fertilizers

Chemical fertilizers are widely available, cost-effective, and offer quick visible results, making them more appealing in the short term. Their strong distribution networks and brand trust create barriers for biofertilizers to penetrate rural markets. Additionally, subsidies and government support for chemical fertilizers in many regions reduce the

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incentive to shift toward bio-based alternatives. Farmers often lack awareness about the long-term soil health benefits of mycorrhiza biofertilizers compared to immediate yield boosts from chemicals. This dominance of chemical fertilizers slows down the growth and wider acceptance of mycorrhiza biofertilizers.

Covid-19 Impact:

The Covid-19 pandemic significantly impacted the mycorrhiza biofertilizers market by disrupting supply chains, limiting raw material availability, and delaying distribution activities. Restrictions on transport and trade created challenges in meeting demand, particularly for agricultural inputs. Farmers faced uncertainties in crop planning due to labor shortages and market volatility. However, the crisis highlighted the importance of sustainable farming practices, boosting interest in biofertilizers as eco-friendly alternatives to chemical inputs. Gradual recovery in agriculture and growing awareness about soil health supported renewed adoption of mycorrhiza biofertilizers post-pandemic.

The solid biofertilizers segment is expected to be the largest during the forecast period

The solid biofertilizers segment is expected to account for the largest market share during the forecast period by offering longer shelf life and easier storage compared to liquid forms. Farmers prefer solid formulations due to their cost-effectiveness and simple application methods. These products improve soil fertility by enhancing nutrient absorption and promoting sustainable farming practices. Solid biofertilizers are widely adopted in cereals, pulses, and horticultural crops, boosting their demand globally. Their role in reducing chemical fertilizer dependency further accelerates market growth.

The fruits & vegetables segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fruits & vegetables segment is predicted to witness the highest growth rate by enhancing crop productivity and improving nutrient uptake efficiency. Rising consumer demand for chemical-free and organic produce boosts the adoption of biofertilizers in this segment. Mycorrhiza applications improve soil health and plant resistance, ensuring better quality and yield of fruits and vegetables. Increasing focus on sustainable farming practices further supports the use of these biofertilizers. Overall, this segment acts as a key growth driver by combining consumer preferences with eco-friendly agricultural solutions.

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Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to the region’s dependence on agriculture and increasing adoption of organic farming practices. Countries like India, China, and Japan are encouraging sustainable crop production to reduce chemical fertilizer use. Rising awareness among farmers, government initiatives promoting eco-friendly solutions, and expanding horticulture and floriculture sectors contribute to the demand. Research institutions and collaborations with agritech companies are also driving innovation, making biofertilizers an essential part of the region’s evolving agricultural ecosystem.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR by advanced farming technologies, precision agriculture, and strong demand for sustainable farming inputs. The United States and Canada are leading in adopting bio-based agricultural solutions to improve soil health and crop productivity. Growing consumer preference for organic food, supportive regulatory frameworks, and investment in biotechnology are key factors. Universities and research organizations actively contribute to product development and farmer awareness. Strategic collaborations between biofertilizers companies and agribusinesses further boost market expansion in this technologically advanced agricultural landscape.

Key players in the market

Some of the key players in Mycorrhiza Biofertilizers Market include Novozymes A/S, Symborg S.L., T. Stanes & Company Limited, Rizobacter Argentina S.A., AgriLife (India), Premier Tech Ltd., Lallemand Inc., Groundwork BioAg Ltd., Valent BioSciences LLC, Mapleton Agri Biotec Pty Ltd., Mycorrhizal Applications LLC, Sustane Natural Fertilizer, Inc., Camson Biotechnologies Ltd., Indogulf BioAg LLC and K.N. Biosciences India Pvt. Ltd.

Key Developments:

In January 2024, Novozymes and Chr. Hansen successfully merged, creating Novonesis. This transformative milestone combined their strengths in biosolutions and biotechnology, forming a global leader focused on sustainable innovation, expanded product portfolios, and enhanced capabilities across agriculture, biofertilizers, and environmental solutions.

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In January 2023, Rizobacter signed an agreement with ucrop.it to reward producers who document responsible use of Microstar BIO fertilizers (USD 20/ton applied) on the ucrop.it platform—an initiative that supports soil-health/biological fertilization practices that overlap with the mycorrhiza biofertilizers space.

Types Covered:

- Ectomycorrhiza
- Endomycorrhiza
- Other Types

Forms Covered:

- Solid Biofertilizers
- Liquid Biofertilizers

Service Types Covered:

- Sensors
- Probes and Analyzers
- Software and Services

Crop Types Covered:

- Cereals & Grains
- Fruits & Vegetables
- Oilseeds & Pulses

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Turf & Ornamentals

Other Crop Types

Microorganisms Covered:

Glomus spp.

Gigaspora spp.

Acaulospora spp.

Scutellospora spp.

Other Microorganisms

Applications Covered:

Seed Treatment

Soil Treatment

Root Dipping

Foliar Spray

Other Applications

End Users Covered:

Agriculture

Horticulture

Forestry

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- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand

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South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

- Company Profiling
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  - SWOT Analysis of key players (up to 3)
- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking
  - Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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10 GLOBAL MYCORRHIZA BIOFERTILIZERS MARKET, BY END USER

11 GLOBAL MYCORRHIZA BIOFERTILIZERS MARKET, BY GEOGRAPHY

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12 KEY DEVELOPMENTS

13 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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