

# Biofertilizers Market Size to Reach USD 5 Billion by 2032, With CAGR of 10.53% by 2024–2032, Driven by Increasing Soil

*Biofertilizers Market Research Report Information By Type, By Crop Type, By Form , By Application, By Microorganism Type, And By–Forecast Till 2032*

NEW YORK, NY, UNITED STATES, January 14, 2025 /EINPresswire.com/ -- [Biofertilizers Market](#) Size was valued at USD 2 Billion in 2023. The Biofertilizers market industry is projected to grow from USD 2.2448 Billion in 2024 to USD 5 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 10.53% during the forecast period (2024 - 2032).

biofertilizers market is gaining significant traction across the globe, driven by the increasing demand for sustainable agricultural practices and the rising awareness of eco-friendly farming solutions. According to a comprehensive market research report, the global biofertilizers market is expected to witness substantial growth in the coming years, fueled by advancements in biotechnology, government initiatives promoting organic farming, and the growing need to reduce chemical inputs in agriculture.

Biofertilizers are natural fertilizers that contain living microorganisms, which, when applied to seeds, plant surfaces, or soil, promote plant growth by increasing the availability of essential nutrients. Unlike chemical fertilizers, biofertilizers are environmentally friendly and help in maintaining soil fertility in the long run. The key types of biofertilizers include nitrogen-fixing, phosphate-solubilizing, and other microbial-based solutions.

The report highlights key market segments based on type, crop type, form, application, microorganism type, and region. The analysis provides valuable insights into the competitive landscape, emerging trends, and future opportunities for stakeholders in the biofertilizers



Biofertilizers Market Overview

industry.

Key Players:

National Fertilizers Ltd., Monsanto BioAg, Rashtriya Chemicals & Fertilizers Ltd, Gujarat State Fertilizers & Chemicals Ltd.

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Market Segmentation

By Type

**Nitrogen-Fixing Biofertilizers** Nitrogen-fixing biofertilizers are among the most widely used types, helping to fix atmospheric nitrogen into a form that plants can absorb. Common nitrogen-fixing biofertilizers include Rhizobium, Azotobacter, and Azospirillum.

**Phosphate-Solubilizing Biofertilizers** These biofertilizers enhance the solubility of phosphorus in the soil, making it readily available for plant uptake. Phosphate-solubilizing biofertilizers play a crucial role in improving the overall nutrient balance of the soil.

**Others** Other biofertilizers include potassium-solubilizing and zinc-solubilizing microorganisms, which address specific nutrient deficiencies in various crops.

By Crop Type

**Cereals & Grains** Biofertilizers are extensively used in the cultivation of cereals and grains, such as wheat, rice, and maize, to enhance yields and reduce dependency on chemical inputs.

**Pulses & Oilseeds** Pulses and oilseeds are highly responsive to biofertilizers, especially nitrogen-fixing types, which improve soil nitrogen levels and boost crop productivity.

**Fruits & Vegetables** The demand for organic fruits and vegetables has surged, driving the adoption of biofertilizers in horticulture. Biofertilizers help improve the quality and shelf life of produce.

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By Form

**Dry Biofertilizers** Dry biofertilizers are easy to store and transport, making them a popular choice among small and medium-scale farmers.

**Liquid Biofertilizers** Liquid biofertilizers have a longer shelf life and are more effective in delivering the desired results. They are gaining popularity due to their ease of application and

high efficacy.

## By Application

**Leaf Treatment** Leaf treatment involves spraying biofertilizers directly onto the leaves, allowing for quick absorption of nutrients by the plant.

**Root Immersion** This method involves immersing the plant roots in a biofertilizer solution before transplanting. It is commonly used in horticulture and floriculture.

**Plant Rooting** Plant rooting applications involve applying biofertilizers to the soil near the plant roots, ensuring better nutrient uptake and improved plant growth.

**Others** Other application methods include seed treatment, where biofertilizers are applied directly to seeds before sowing, enhancing germination rates and early growth.

## By Microorganism Type

**Rhizobium** Rhizobium-based biofertilizers are primarily used for leguminous crops, helping in nitrogen fixation and improving soil fertility.

**Azotobacter** Azotobacter is a free-living nitrogen-fixing bacterium that benefits a wide range of crops by enhancing soil nitrogen levels.

**Azospirillum** Azospirillum is another nitrogen-fixing bacterium, particularly beneficial for non-leguminous crops such as cereals.

**Pseudomonas** Pseudomonas-based biofertilizers help in disease resistance and plant growth promotion by solubilizing phosphates and producing plant hormones.

**Bacillus** Bacillus species are known for their ability to solubilize phosphorus and potassium, making them a versatile option for various crops.

**Vesicular-Arbuscular Mycorrhiza (VAM)** VAM biofertilizers enhance the uptake of phosphorus and other micronutrients, promoting better root development and plant growth.

**Others** Other microorganisms, including cyanobacteria and Actinobacteria, are also gaining attention in the biofertilizers market.

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## Regional Analysis

### North America

North America is a prominent market for biofertilizers, driven by the increasing adoption of organic farming and sustainable agriculture practices. The United States and Canada are leading in terms of biofertilizer usage, supported by favorable government policies and awareness campaigns.

### Europe

Europe holds a significant share of the global biofertilizers market, with countries like Germany, France, and the Netherlands leading the way. The region's stringent regulations on chemical fertilizers and pesticides have spurred the adoption of biofertilizers.

### Asia-Pacific

The Asia-Pacific region is expected to witness the highest growth during the forecast period, driven by the rising population, increasing food demand, and growing awareness of sustainable farming practices. Countries such as India, China, and Japan are at the forefront of biofertilizer adoption.

### Rest of the World

Regions such as Latin America, the Middle East, and Africa are also experiencing growth in the biofertilizers market, with increasing investments in agriculture and a shift towards eco-friendly farming solutions.

### Key Market Drivers

**Growing Demand for Organic Food** The rising consumer preference for organic food products is a major driver for the biofertilizers market. Organic farming relies heavily on biofertilizers to enhance soil fertility and crop yields.

**Government Support and Initiatives** Various governments are promoting the use of biofertilizers through subsidies, awareness programs, and research initiatives. This support is expected to propel market growth.

**Environmental Concerns** Increasing concerns about soil degradation, water pollution, and the adverse effects of chemical fertilizers are driving the demand for biofertilizers as a sustainable alternative.

**Advancements in Biotechnology** Ongoing research and development in biotechnology are leading to the development of more effective and specialized biofertilizers, further boosting market growth.

### Challenges and Restraints

Despite the promising growth prospects, the biofertilizers market faces certain challenges, including:

**Short Shelf Life:** Some biofertilizers have a limited shelf life, which can affect their effectiveness.

**Lack of Awareness:** In developing regions, a lack of awareness and technical knowledge among farmers can hinder market growth.

**Competition from Chemical Fertilizers:** The widespread availability and quick results of chemical fertilizers pose a challenge to the adoption of biofertilizers.

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