

Biofertilisers Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 150 pages | EMR Inc.

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Report description:

The global biofertilisers market reached a value of nearly USD 4.28 Billion in 2024 . The market is assessed to grow at a CAGR of 12.70% during the forecast period of 2025-2034 to attain a value of around USD 14.15 Billion by 2034 . The market is being driven by the growing organic farming activities, rising emphasis on sustainability, favourable government initiatives, technological advancements, and product innovations.

Global Biofertilisers Market Growth

Governments globally are introducing various initiatives to enhance the affordability of biofertilisers for farmers and lower production costs of biofertiliser production. For instance, the Indian government, through schemes like Paramparagat Krishi Vikash Yojana (PKVY) and Mission Organic Value Chain Development for North Eastern Region (MOVCDNER), is encouraging the use of biofertilisers as an economical and eco-friendly source of nutrients.

There is a rise in the inclination towards biofertilisers due to increased awareness of adverse environmental consequences, like soil degradation and emissions, caused due to the use of chemical fertilisers. In addition, the growing demand for organic fruit and vegetables, due to increasing consumer health consciousness, is also providing a boost to the biofertilisers market expansion. In 2022, the global sales of organic food and drink reached around EUR 135 billion, as per the FAO of the UN.

The growing integration of biofertilisers in integrated pest management (IPM) systems is driving the biofertilisers demand growth. Biofertilisers including microorganisms capable of providing natural pest resistance and fixing nutrients are increasingly used in integrated pest management systems to lower the requirement for chemical fertilisers and pesticides.

Key Trends and Recent Developments

Rising trend of organic farming; integration of biofertilisers with precision agriculture; product innovations; and technological advancements are favouring the biofertilisers market expansion.

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January 2025

Super Crop Safe Ltd. announced the launch of the Super Gold WP+, its biofertiliser that is a unique combination of inoculant mycorrhiza and other essential nutrients. The biofertiliser is designed to revolutionise farming practices by lowering the consumption of chemical fertilisers like DAP and urea while enhancing crop productivity.

September 2024

KRIBHCO partnered with Novonosis to market the Denmark-based company's Rhizosuper biofertiliser. By offering KRIBHCO Rhizosuper, the companies aim to support Indian farmers to improve their crop yields, enhance soil quality, and adopt sustainable agricultural practices. The Rhizosuper, costing INR 500-600 per acre, can be used on wheat, paddy, and pulses during their early growth stages.

July 2024

Rovensa Next announced the launch of its soil-regenerating biofertiliser with biostimulant properties, Wiibio. The biofertiliser intends to improve plant development while supporting growers with the stimulation of the natural plant growth cycle by contributing to soil health and vitality.

May 2024

Fresh Del Monte Produce Inc. announced a partnership with Vellsam Materias Bioactivas to develop biofertilisers from Fresh Del Monte's pineapple residues. The companies inaugurated a biofertiliser plant in Kenya that aims to utilise residues from Del Monte's pineapple cannery to create different types of biofertilisers for use in Kenya and East African countries.

Rising Organic Farming Activities

The growing adoption of organic farming practices amid the rising demand for organic produce is driving the use of biofertilisers. As of 2024, organic farming is practised in 188 countries, with over 96 million hectares of agricultural land managed organically by at least 4.5 million farmers. Biofertilisers are critical to organic farming practices as they provide the soil and plants with a healthy growth environment and enhance plant's resistance against abiotic stressors and pests such as excess water, droughts, and extreme temperature changes.

Integration of Biofertilisers with Precision Agriculture

As precision agriculture uses data and technology to apply inputs like fertilisers, seeds, and water, among others, at variable rates, it enables the strategic application of biofertilisers based on crop needs, soil nutrient levels, and other environmental factors. Precision agriculture also relies on detailed nutrient analysis and soil mapping, hence driving the use of biofertilisers to address specific nutrient deficiencies.

Technological Advancements

Innovations in microbial science and biotechnology aimed at enhancing the effectiveness of biofertilisers are aiding the market. The development of advanced formulations and delivery systems, such as liquid formulations and encapsulation techniques, aimed at improving the efficiency and stability of biofertilisers is further driving the market.

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Product Innovations

Key players are increasingly investing in research and development activities to create customised biofertilisers tailored to specific soil conditions and crops. In the forecast period, the development of biofertiliser formulations with enhanced shelf life and stability, coupled with the rising use of genetic engineering to improve the efficiency of microorganisms, is expected to aid the market in the coming years.

Global Biofertilisers Market Trends

As per the European Commission, 60-70% of soil is unhealthy. As healthy soils are the basis for healthy food production and play an integral role in food security, the demand for biofertilisers that enhance the soil microbiome and improve nutrient use efficiency by improving phosphate solubilisation and iron availability in soil is increasing. Moreover, the growing focus on creating a circular economy is prompting key players to develop biofertilisers from residues of fruits and vegetables, enhance soil fertility, and meet the growing demand from consumers seeking nutritious, sustainably grown produce.

The introduction of favourable government initiatives promoting the use of organic farming is boosting the demand for biofertilisers to reduce dependency on chemical fertilisers and improve soil fertility. The growing use of drones, sensors, and other real-time technologies to monitor soil and crops for providing recommendations and decision support systems for biofertiliser applications is further creating lucrative biofertilisers market opportunities.

Global Biofertilisers Industry Segmentation

The EMR's report titled "Global Biofertilisers Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Nitrogen-Fixing Biofertilisers
- Phosphate-Fixing Biofertilisers
- Others

Market Breakup by Crop

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

Market Breakup by Microorganism

- Cyanobacter
- Rhizobium
- Phosphate Solubilizing Bacteria
- Azotobacter
- Others

Market Breakup by Treatment

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- Seed Treatment
- Soil Treatment
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Biofertilisers Market Share

As per the biofertilisers market analysis, seed treatment is assessed to grow at a CAGR of 14.1% during the forecast period of 2025-2034. Seed treatment biofertilisers promote early plant growth and improve the germination rate, especially in nutrient-deficient soils. As it is easy to apply and requires lower quantities of biofertilisers, seed treatment is more cost-effective than soil treatment.

Meanwhile, soil treatment biofertilisers promote a healthy rhizosphere, enhance the nutrient availability of soil, and replenish essential nutrients and beneficial microorganisms in the soil. Soil treatment requires more extensive application methods and is more labour-intensive than seed treatment.

Competitive Landscape

Key biofertilisers market players are investing in research and development activities to develop new microbial strains and formulations that can enhance nitrogen fixation, biological pest control, and phosphate solubilisation of biofertilisers. They are also attempting to develop multifunctional biofertilisers that offer various benefits, including improved disease resistance, enhanced soil health, and increased plant growth.

Novozymes A/S

Novozymes A/S, founded in 2000 and headquartered in Bagsv rd, Denmark, is a leader in biosolutions. The company leverages science and microbiology to transform the agricultural and consumer sectors. With operations in over 30 countries, its product portfolio is manufactured at scale in-house and includes probiotics, prebiotics, novel vitamins, enzymes, protein, and other biosolutions.

National Fertilizers Limited

National Fertilizers Limited, headquartered in Uttar Pradesh, India, is one of India's largest CPSE in the fertiliser Sector. Established in 1974, it is the second-largest producer of the key fertiliser urea in India, boasting an installed capacity of 35.68 lakh million tons. It is also engaged in the manufacturing and marketing of neem coated urea, four strains of bio-fertilisers (solid and liquid) and other allied industrial products.

Lallemand Inc.

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Lallemand Inc., headquartered in Montreal, Canada, is a company that specialises in the development, marketing, and production of microorganisms and their derivatives. With its history dating back to the 19th century, the company also researches, products, develops, and markets bacteria and yeast, among others.

Madras Fertilizers Limited

Madras Fertilizers Limited, incorporated in 1966, is a joint venture between AMOCO India incorporated of U.S.A (AMOCO) and GOI. The company is engaged in the manufacturing of urea, ammonia, biofertilisers, and complex fertilisers.

Other key players in the biofertilisers market include Rizobacter Argentina S.A. and Gujarat State Fertilizers & Chemicals Ltd., among others.

Biofertilisers Market Report Snapshots

Biofertilisers Market Size

Biofertilisers Market Growth

Biofertilisers Market Analysis

Biofertilisers Market Share

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