+44 20 8123 2220
info@marketpublishers.com

Biofertilizers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Nitrogen-Fixing Bio Fertilizers, Phosphate-Solubilizing Bio Fertilizers, Potash-Mobilizing Bio Fertilizers, and Others), By Form (Liquid, Carrier-based), By Crop Type (Cereals & Grains, Pulses & Oilseeds, Fruits & Vegetables, and Others), By Application (Seed treatment, Soil treatment, Others), By Microbe Type (Rhizobium, Azotobacter, Azospirillum, Cyanobacteria, Phosphate-Solubilizing Bacteria, and Others), By Region and Competition, 2019-2029F

https://marketpublishers.com/r/B501F2E042AFEN.html
Date: May 2024
Pages: 185
Price: US$ 4,900.00 (Single User License)
ID: B501F2E042AFEN

Abstracts

Global Biofertilizers Market was valued at USD 2.77 Billion in 2023 and is anticipated t%li%project steady growth in the forecast period with a CAGR of 10.27% through 2029. The global biofertilizers market is witnessing significant growth as agricultural practices shift towards more sustainable and environmentally friendly solutions. Biofertilizers, derived from living organisms, offer a natural alternative t%li%chemical fertilizers, addressing concerns related t%li%soil degradation, environmental pollution, and food safety. These microbial-based fertilizers play a crucial role in enhancing soil fertility and promoting plant growth by facilitating nutrient uptake through symbiotic relationships with plants.

One of the key advantages of biofertilizers is their ability t%li%fix atmospheric nitrogen,

solubilize phosphorus, and improve nutrient availability in the soil. Nitrogen-fixing rhizobium, azotobacter, and phosphate-solubilizing biofertilizers are among the most common types used in agriculture. Additionally, mycorrhizal fungi, such as Glomus species, form symbiotic associations with plant roots, further enhancing nutrient absorption and overall plant health. The adoption of biofertilizers offers several benefits, including improved soil structure, increased nutrient efficiency, and reduced environmental pollution. These sustainable agricultural practices align with the growing demand for organic and eco-friendly products, driving the expansion of the biofertilizers market. Government initiatives promoting sustainable agriculture and organic farming practices are further bolstering market growth. Subsidies, incentives, and regulatory support for the use of biofertilizers encourage farmers t%li%adopt these environmentally friendly alternatives.

Challenges such as limited awareness among farmers, inconsistent product quality, and the need for specialized knowledge in application methods hinder market growth t%li%some extent. Overcoming these challenges requires concerted efforts from stakeholders, including governments, agricultural organizations, and biofertilizer manufacturers, t%li%educate farmers, improve product quality standards, and enhance distribution networks. The biofertilizers market is witnessing significant investment in research and development t%li%develop innovative microbial strains and improve product effectiveness. Technological advancements in formulation techniques, microbial biotechnology, and delivery systems are driving product innovation and expanding the application scope of biofertilizers.

Geographically, Asia Pacific is emerging as a key market for biofertilizers due t%li%the region's large agricultural sector, increasing population, and growing awareness about sustainable farming practices. Countries such as India, China, and Vietnam are witnessing robust demand for biofertilizers driven by government support, favorable policies, and rising environmental concerns. North America and Europe are als%li%significant markets for biofertilizers, driven by consumer demand for organic products, stringent regulations on chemical fertilizer use, and initiatives promoting sustainable agriculture.

The global biofertilizers market is poised for substantial growth as agriculture transitions towards sustainable and eco-friendly practices. With increasing awareness about environmental sustainability, government support, and technological advancements driving innovation, biofertilizers are set t%li%play a crucial role in ensuring food security, preserving soil health, and mitigating environmental impacts associated with conventional farming practices.

+44 20 8123 2220
info@marketpublishers.com

Key Market Drivers

Growing Preference for Chemical-Free Food Products

The global trend towards healthier lifestyle choices and the demand for organic produce is predicted t%li%significantly boost the biofertilizer market. Consumers are becoming increasingly conscious about the food they consume and the impact of chemical-based farming on the environment and human health. As such, they are turning towards chemical-free food products, which, in turn, promotes the adoption of biofertilizers. Biofertilizers, being environment-friendly and hugely beneficial in enriching the soil with essential nutrients, present a viable alternative t%li%chemical fertilizers. They are made from biological wastes and d%li%not contain any harmful synthetic agents, aligning perfectly with the global push towards sustainable agriculture and food safety.

Biofertilizers have shown t%li%improve crop yield, soil fertility, and the organic matter content of the soil, all while being cost-effective and reducing the dependence on chemical fertilizers. By providing essential nutrients t%li%the plants and improving soil health, biofertilizers are playing a crucial role in the movement towards chemical-free food products. They are expected t%li%experience increased demand globally, particularly in regions where organic farming is gaining traction. This surge in demand for chemical-free food products and the resultant increase in biofertilizer use are expected t%li%drive growth in the biofertilizer market.

Increasing Prices of Synthetic Fertilizers

The escalating prices of synthetic fertilizers are poised t%li%push the global demand for biofertilizers. This trend can be attributed t%li%tw%li%core factors. The increasing costs of synthetic fertilizers make them less affordable for farmers, especially those operating on a small scale or in developing regions. This economic concern is leading t%li%a shift towards more cost-effective and sustainable alternatives, such as biofertilizers., the harmful environmental impact of synthetic fertilizers, including soil degradation and water pollution, is compelling farmers, agro-industry, and governments t%li%explore eco-friendly options. Biofertilizers, which are derived from living organisms, can enhance soil fertility without causing adverse environmental effects, making them a preferred choice. They not only improve the nutrient content of the soil but als%li%promote the growth of beneficial microorganisms, contributing t%li%sustainable agricultural practices. The increasing awareness about these benefits, coupled with supportive government policies promoting organic farming, is further

+44 20 8123 2220
info@marketpublishers.com

expected t%li%fuel the demand for biofertilizers. Therefore, the soaring prices of synthetic fertilizers are inadvertently driving the growth of the biofertilizer market globally.

Rising Demand for Organic Food Products

The global surge in demand for organic food products is expected t%li%directly influence the upswing in biofertilizer demand. Consumers worldwide are increasingly conscious of the health implications associated with the consumption of foods laced with chemical fertilizers, leading t%li%a dramatic shift towards organic foods. Organic farming inherently requires the use of natural resources like biofertilizers t%li%augment soil fertility, thereby maintaining the organic integrity of food crops. Biofertilizers, laden with beneficial microorganisms, enrich the soil with essential nutrients, ensuring the healthy growth of crops without any adverse environmental implications or health hazards. Furthermore, their role in promoting sustainable agriculture, reducing the over-reliance on chemically synthesized fertilizers, and reducing soil and water pollution makes them a natural choice in organic farming. The increasing governmental support for organic farming, in the form of favorable policies and subsidies, further bolsters the demand for biofertilizers. Additionally, the growing global trend of farm-to-table and the increasing interest in home gardening, predominantly in urban settings, are expected t%li%fuel the demand for biofertilizers. All these factors collectively contribute t%li%the expected increase in biofertilizer demand in stride with the rising demand for organic food products.

Growing Awareness Among Farmers About the Benefits of Biofertilizers

The global rise in awareness among farmers about the benefits of biofertilizers is expected t%li%significantly influence the demand for these products. Biofertilizers are emerging as an effective eco-friendly alternative t%li%chemical fertilizers, offering substantial benefits like enhanced soil fertility, improved plant growth, and increased crop yield. Farmers are becoming more educated about the environmental impacts of chemical fertilizers, triggering a shift towards more sustainable farming practices. Biofertilizers, with their ability t%li%contribute t%li%nutrient enrichment and the biological balance of soils, are gaining recognition. They are cost-effective, renewable, and safe for both the environment and the crops. By integrating biofertilizers int%li%their farming practices, farmers can enhance crop productivity while reducing environmental harm. Government initiatives worldwide are als%li%playing a significant role, promoting the adoption of biofertilizers through awareness campaigns, subsidies, and training programs. The increasing demand for organic food is further accelerating

this trend, as biofertilizers align with the needs of organic farming. In conclusion, as awareness and understanding of biofertilizers' benefits continue t%li%grow among the farming community, the global demand for these products is expected t%li%rise.

Key Market Challenges

Storage and Limited Shelf-Life

The global demand for biofertilizers may see a decline owing t%li%storage complexities and limited shelf-life. Biofertilizers, albeit an environmentally-friendly alternative t%li%synthetic fertilizers, harbor live bacteria and fungi that necessitate specific storage conditions t%li%remain viable. These conditions often involve low temperatures that make the transportation and storage of biofertilizers a challenge, particularly in regions with warmer climates. The biofertilizers' limited shelf-life poses another significant concern. Unlike their synthetic counterparts that can be stored indefinitely, biofertilizers lose efficacy over time and must be used within a specified period t%li%ensure optimal results. This aspect can lead t%li%waste, particularly in instances of overproduction or decreased agricultural activities such as off-seasons or unexpected weather changes. The combination of these factors—rigorous storage requirements and short shelf-life—inevitably adds t%li%the operational costs and can hinder the widespread adoption of biofertilizers. These challenges may result in a decreased global demand for biofertilizers, despite their known benefits t%li%soil health and fertility.

Competition from Synthetic Fertilizers

The global agricultural landscape is witnessing an intense competition between synthetic fertilizers and biofertilizers. Despite the numerous benefits of biofertilizers, such as enhancing soil fertility, promoting sustainable farming, and reducing harmful environmental impacts, their adoption rate is experiencing a significant challenge from synthetic fertilizers. Synthetic fertilizers, als%li%referred t%li%as chemical fertilizers, offer an immediate and potent nutrient supply t%li%crops, which substantially increases crop yield in a shorter period. This swift and robust impact on crop productivity is a major factor enticing farmers globally, leading them t%li%prefer synthetic fertilizers over biofertilizers. Synthetic fertilizers are easily accessible and widely available in various forms, making them more convenient t%li%use. The extensive marketing and distribution networks established by the synthetic fertilizer companies als%li%contribute t%li%their dominance. This competition from synthetic fertilizers is anticipated t%li%curtail the demand for biofertilizers worldwide. The increasing awareness of the environmental harms caused by synthetic fertilizers and the growing trend of organic

farming could potentially counterbalance this trend, steering the preference back toward biofertilizers in the long run.

Key Market Trends

Government Initiatives & Subsidies t%li%Encourage Organic Farming

Governments worldwide are increasingly recognizing the paramount significance of sustainable agriculture and are actively supporting farmers in their transition from conventional t%li%organic farming practices. This unwavering support encompasses a wide range of measures, including financial incentives, tax benefits, research and development grants, as well as subsidies specifically aimed at facilitating the acquisition of biofertilizers. By alleviating the financial burden associated with the adoption of biofertilizers, these initiatives not only empower farmers but als%li%foster a greater understanding of the myriad benefits that these organic alternatives offer. This, in turn, paves the way for wider acceptance and adoption, ultimately creating a virtuous cycle of growth and development.

The availability of such subsidies and incentives is creating a favorable ecosystem for the exponential expansion of the biofertilizer market, both at the local and global levels. As a result, the positive impact of sustainable agriculture is not only being felt by farmers themselves but als%li%by the broader community and the environment at large. These concerted efforts by governments t%li%promote sustainable agriculture and support the transition t%li%organic farming practices are driving a paradigm shift in the agricultural landscape. With the biofertilizer market poised for significant growth, the stage is set for a more sustainable and environmentally friendly future in agriculture.

Rising Environmental Concerns & Increasing Demand for Greener Alternatives

Chemical fertilizers have long been recognized for their negative environmental consequences. The extensive use of these fertilizers has led t%li%water pollution, soil degradation, and greenhouse gas emissions. In response t%li%these concerns, governments and environmental agencies worldwide are actively promoting the adoption of biofertilizers as a sustainable solution. Recognizing the urgency of the situation, many countries have implemented stringent regulations and policies t%li%reduce the usage of chemical fertilizers and encourage the widespread adoption of organic farming practices. This growing support from regulatory bodies, combined with the increasing awareness of environmental issues among consumers, has created a significant shift in the agricultural industry. Farmers and agricultural practitioners are

+44 20 8123 2220
info@marketpublishers.com

now more inclined t%li%explore biofertilizers as an alternative, recognizing their potential t%li%mitigate the negative impacts of chemical fertilizers. This shift in mindset and practice is not only driven by environmental concerns but als%li%by the desire t%li%create a healthier and more sustainable food system.

As a result, the demand for biofertilizers is experiencing a remarkable surge, creating a favorable market environment for manufacturers and suppliers. The adoption of biofertilizers not only addresses environmental concerns but als%li%offers long-term benefits such as improved soil health, enhanced crop productivity, and reduced dependency on synthetic inputs. The shift towards biofertilizers as a sustainable alternative t%li%chemical fertilizers is gaining momentum. The collaboration between regulatory bodies, environmental agencies, and the agricultural community is crucial in creating a more environmentally friendly and sustainable agricultural system. With the increasing demand for biofertilizers and the growing awareness of their benefits, we can expect a positive impact on the environment and a more sustainable future for agriculture.

Segmental Insights

Type Insights

Based on the Type, Nitrogen-fixing biofertilizers dominated the market in 2023, accounting for a significant revenue share. This can be attributed t%li%their ability t%li%address long-standing issues of heavily contaminated soil and water reserves resulting from the widespread use of synthetic fertilizers. The utilization of biobased fertilizers effectively meets the soil's high phosphorus content requirements, fixed nitrogen presence, and other essential mineral needs for optimal plant growth. Moreover, the use of specific biofertilizers tailored t%li%different soil and crop types promotes healthy plant development without compromising human health or the environment.

In addition t%li%nitrogen-fixing biofertilizers and phosphate solubilizing products, which are the tw%li%most in-demand products globally, multinational companies operating in this space are als%li%focusing on the mass commercialization of potassium mobilizing biofertilizers, zinc solubilizing products, and NPK consortia liquid products. Among the commonly found potassium-solubilizing bacteria, silicate bacteria such as Bacillus glucanolyticus, B. mucilaginous, B. circulans, and B. edaphicus play a vital role.

Crop Type Insights

+44 20 8123 2220
info@marketpublishers.com

Based on the Crop Type, the cereals & grains held the largest share of revenue in 2023. The production of cereals and grains requires a significant quantity of biofertilizers for optimal development. Global studies have indicated that cereal and grain crops exhibit substantial growth and development when inoculated with Azotobacter, leading t%li%a reduction in nitrogen requirements. Moreover, the utilization of phosphate solubilizing bacteria and Azotobacter inoculation has proven t%li%be highly effective biofertilizers for the healthy development of wheat, resulting in increased crop yields. The utilization of these biofertilizers in cereal and grain cultivation promotes vigorous vegetation growth and enhances photosynthesis activity.

The oilseeds and pulses segment is expected t%li%experience the fastest growth. The increasing demand for soybean, sunflower, and groundnuts worldwide is a key factor driving the application of biofertilizers in the oilseeds and pulses sector. Additionally, advancements in microbiology have contributed t%li%determining the suitable composition of biofertilizers for wheat cultivation, as well as other major cereals and grains. Consequently, the demand for biofertilizers is projected t%li%experience significant growth over the forecast period globally. The consumption of biofertilizers in oilseeds and pulses is highest in North America and the Asia Pacific regions, primarily due t%li%the growing demand for soybean, groundnut, sesame, and sunflower. The most effective biofertilizer compositions for a variety of pulses and oilseed cultivation worldwide have been found t%li%include phosphorus solubilizing bacteria, rhizobium, plant growth-promoting rhizobacteria, and vesicular arbuscular mycorrhiza.

Regional Insights

The biofertilizers market in the Asia Pacific region is projected t%li%witness the fastest and dominating growth during the forecast period. The increasing population and the rising demand for cereals and grains, particularly in developing countries, are significant drivers for the development of the biofertilizers market in this region. India stands out as a key player in the biofertilizers marketplace. Factors such as the growing population, heightened focus on organic foods, and increased government support for the production and utilization of biofertilizers contribute t%li%the market's growth in India. The Indian government actively promotes the use of biofertilizers and has implemented the Integrated Nutrient Management (INM) program under the Soil Health Card Program. This program encourages soil test-based practices t%li%reduce the reliance on chemical fertilizers and harmful pesticides.

Key Market Players

+44 20 8123 2220
info@marketpublishers.com

Novozymes A/S

CBF China Bio-Fertilizer AG

Agri Life (India) Private Limited

Mapleton Agri Biotech Pt Ltd

Rizobacter Argentina S.A.

Symborg S.L.

National Fertilizers Ltd

Growing Power Hairy Hill L.P.

Antibiotice S.A.

Report Scope:

In this report, the Global Biofertilizers Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%been detailed below:

Biofertilizers Market, By Type:

Nitrogen-Fixing Bi%li%Fertilizers

Phosphate-Solubilizing Bi%li%Fertilizers

Potash-Mobilizing Bi%li%Fertilizers

Others

Biofertilizers Market, By Form:

Liquid

Carrier-based

+44 20 8123 2220
info@marketpublishers.com

Biofertilizers Market, By Crop Type:

Cereals & Grains

Pulses & Oilseeds

Fruits & Vegetables

Others

Biofertilizers Market, By Application:

Seed treatment

Soil treatment

Others

Biofertilizers Market, By Microbe Type:

Rhizobium

Azotobacter

Azospirillum

Cyanobacteria

Phosphate-Solubilizing Bacteria

Others

Biofertilizers Market, By Region:

North America

United States

+44 20 8123 2220
info@marketpublishers.com

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

+44 20 8123 2220
info@marketpublishers.com

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Biofertilizers Market.

Available Customizations:

Global Biofertilizers market report with the given market data, TechSci Research offers customizations according t%li%a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up t%li%five).

+44 20 8123 2220
info@marketpublishers.com

Contents

+44 20 8123 2220
info@marketpublishers.com

5. NORTH AMERICA BIOFERTILIZERS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

6. EUROPE BIOFERTILIZERS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

7. ASIA-PACIFIC BIOFERTILIZERS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

8. SOUTH AMERICA BIOFERTILIZERS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

9. MIDDLE EAST AND AFRICA BIOFERTILIZERS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Biofertilizers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Nitrogen-Fixing Bio Fertilizers, Phosphate-Solubilizing Bio Fertilizers, Potash-Mobilizing Bio Fertilizers, and Others), By Form (Liquid, Carrier-based), By Crop Type (Cereals & Grains, Pulses & Oilseeds, Fruits & Vegetables, and Others), By Application (Seed treatment, Soil treatment, Others), By Microbe Type (Rhizobium, Azotobacter, Azospirillum, Cyanobacteria, Phosphate-Solubilizing Bacteria, and Others), By Region and Competition, 2019-2029F

Product link: https://marketpublishers.com/r/B501F2E042AFEN.html

Price: US$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/B501F2E042AFEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

+44 20 8123 2220
info@marketpublishers.com

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970