

Bio Pesticides Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Type (Bio fungicides, Bioherbicides, Bioinsecticides), By Crop Type (Cash Crops, Horticultural Crops, Row Crops), By Application (Foliar spray, Soil treatment, Seed treatment), By Formulation (Dry, Liquid), By Region and Competition

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Abstracts

Global Bio Pesticides Market has valued at USD 6.55 Billion in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 11.54% through 2028. Biopesticides are pesticides derived from natural sources such as plants, animals, and microorganisms. They are utilized in agricultural practices to effectively manage insects, diseases, weeds, nematodes, and other pests, while also improving plant health and productivity. What sets biopesticides apart is their minimal impact on non-target organisms like wildlife and beneficial insects.

Furthermore, biopesticides exhibit environmental degradation, rapidly breaking down in the environment without causing harm to groundwater or surface water. Due to their efficacy at low concentrations, pollution concerns are minimized. Primarily used in plant and crop treatments, biopesticides are increasingly replacing synthetic pesticides, contributing significantly to sustainable and environmentally friendly agricultural practices. These techniques promote plant growth without relying on synthetic or chemical pesticides, ensuring the safety of people and animals. With their growing recognition in the agriculture sector, the market for biopesticides is poised to experience rapid expansion.

Key Market Drivers

Increasing Adoption of Biopesticides

The growth of the global biopesticides market is being significantly propelled by the increasing adoption of these substances in agricultural practices around the world. Biopesticides, being derived from natural materials like animals, plants, bacteria, and minerals, offer an environmentally friendly alternative to synthetic pesticides. They have minimal impact on non-target species and biodiversity, reducing the risk of water contamination and residual toxicity in crops. As the global community becomes more environmentally conscious, the demand for such sustainable solutions is growing. Governments are also encouraging the use of biopesticides through favorable regulations and incentives, which further boosts their acceptance. In addition, advancements in biotechnology have led to the development of highly effective biopesticides, thereby enhancing their marketability. Farmers are now recognizing the long-term economic benefits of using biopesticides, such as reduced resistance in pests and improved soil health, leading to higher crop yields. All these factors combined are expected to drive the increased demand for biopesticides globally.

Growing Government Initiatives Promoting the Use of Biopesticides

Government initiatives worldwide are increasingly promoting the use of biopesticides due to their environmentally-friendly properties, which in turn is escalating their global demand. Biopesticides, composed primarily of naturally occurring substances like plant extracts and beneficial microorganisms, are significantly less harmful to both the environment and non-target species compared to traditional synthetic pesticides. Governments are acknowledging this by introducing programs that encourage farmers to switch to these eco-friendly alternatives. For instance, grants, subsidies, and education programs are being provided to incentivize farmers to utilize biopesticides, educating them about their long-term benefits such as soil health preservation, reduced toxic residues on produce and decreased pesticide resistance in pests. The European Union's 'Green Deal,' aiming to make agriculture more sustainable by 2030, and the United States' 'Sustainable Pest Management' initiative are key examples of such efforts. Additionally, regulatory bodies globally are expediting the approval process for biopesticides, further driving their adoption. Consequently, these growing government initiatives are anticipated to significantly boost the global demand for biopesticides.

Growing Concerns About Food Safety & Quality

The increasing awareness among individuals and farmers about the potential health

risks associated with chemical residues is playing a significant role in boosting the growth of the market. In response to this growing concern, governing agencies of numerous countries have taken proactive measures by implementing stringent regulations on pesticide residues in food. These regulations aim to ensure consumer safety and raise awareness about the potential health risks associated with chemical residues. As a result, the market outlook is positive, with consumers becoming more conscious of the products they consume. There is a noticeable rise in the demand for safer pest control options, driven by the need to mitigate health risks. Biopesticides, being generally considered safe for human consumption, have emerged as a viable solution that aligns with these concerns.

Furthermore, consumers are increasingly inclined to purchase products that are perceived as free from harmful chemical residues. This preference reflects the growing emphasis on health and well-being, as individuals seek to make informed choices and prioritize their overall wellness. The combination of rising awareness, stringent regulations, and shifting consumer preferences is creating a favorable market environment for biopesticides and products free from harmful chemical residues.

Rising Demand for Sustainable Agricultural Practices

The rising demand for sustainable agricultural practices across the globe is significantly contributing to the growth of the market. With increasing awareness of environmental and health concerns associated with conventional chemical pesticides, consumers are becoming more conscious of the need for alternative solutions. In response to this shift, there is a growing preference for eco-friendly and sustainable alternatives that prioritize human health and minimize harm to the environment. Biopesticides, derived from natural sources, offer a more environmentally friendly approach to pest management. They have minimal impact on non-target organisms, soil quality, and water systems. This makes them a favorable choice for farmers and consumers alike who are seeking sustainable solutions in agriculture.

In addition to the changing consumer preferences, governing agencies are implementing various policies to encourage sustainable agriculture and reduce the usage of chemical pesticides. These initiatives have a positive influence on the market, creating a favorable environment for the growth and adoption of sustainable agricultural practices. Overall, the increasing demand for sustainable agriculture, the growing awareness of environmental and health concerns, and the support from governing agencies are driving the market towards a more sustainable and eco-friendly future.

Key Market Challenges

Limited Shelf Life

Biopesticides have emerged as a sustainable and environmentally friendly alternative to conventional chemical pesticides. However, their limited shelf-life poses a significant challenge that could negatively affect their global demand. Biopesticides, being biological agents, are particularly sensitive to storage conditions. Exposure to heat, light, and moisture can rapidly degrade their effectiveness, shortening their shelf-life to just a few months compared to several years for chemical pesticides. This limited shelf-life not only increases the risk of waste due to expired stock but also necessitates more frequent, often costly, purchases for farmers. Additionally, the requirement for specialized storage facilities to extend the lifespan of these products adds to the overall cost and complexity of their usage. Moreover, the short shelf-life of biopesticides complicates distribution and supply chain management, particularly in developing countries with inadequate infrastructure. These challenges are expected to hinder the adoption of biopesticides among farmers globally, potentially slowing down the growth of the biopesticides market. Despite the environmental benefits, the practical disadvantages associated with the limited shelf-life of biopesticides could decrease their demand in the global agricultural sector.

High Production Costs

The high production costs associated with biopesticides are expected to serve as a significant deterrent to their global demand. Biopesticides, while environmentally friendly, are complex to manufacture, requiring advanced techniques and equipment. These prerequisites result in elevated production costs, which subsequently increase the market price of such products. Consumers, particularly those in developing countries with lower purchasing power, may find these higher prices prohibitive, consequently reducing demand. Moreover, the costs associated with research and development, regulatory compliance, and promoting customer awareness about the benefits of biopesticides can amplify the financial burden on manufacturers. These factors could deter potential entrants into the sector, leading to a limited number of players and reduced competition. This lack of competition could further contribute to the high prices of biopesticides. In markets where conventional pesticides, which are often cheaper to produce, are widely available, the higher-priced biopesticides may struggle to gain traction. Therefore, the high production costs of biopesticides could lead to a decrease in their global demand.

Key Market Trends

Rising Costs Associated with Synthetic Pesticides

Globally, the demand for biopesticides is anticipated to escalate, driven by the surging costs of synthetic pesticides. Not only does the high manufacturing cost of synthetic pesticides burden agricultural businesses, but the indirect costs associated with their usage, such as environmental degradation, health hazards, and the loss of biodiversity, are also increasing. These heightened expenses are steering the agricultural sector towards more sustainable and cost-effective alternatives, like biopesticides.

Biopesticides, derived from natural materials like animals, plants, bacteria, and minerals, are not only significantly less expensive to produce, but they also pose fewer risks to the environment and human health. Their ability to biodegrade and leave minimal residual effects reduces the probability of harmful environmental impacts, making them a promising investment for the future. Furthermore, as regulatory bodies worldwide tighten the rules around synthetic pesticide use to protect the environment, the shift towards biopesticides becomes even more appealing. Hence, the compounding pressure of rising production costs, environmental consciousness, and stringent regulations is expected to fuel the global demand for biopesticides.

Improvement in Integrated Pest Management (IPM) Practices

The global demand for biopesticides is expected to surge owing to advances in Integrated Pest Management (IPM) practices. Biopesticides, derived from natural materials like animals, plants, bacteria, and certain minerals, are increasingly seen as an effective and environmentally friendly alternative to synthetic pesticides. Enhanced IPM practices emphasize the importance of using a combination of biological, cultural, physical, and chemical methods to control pests, which inherently supports the use of biopesticides. The growing awareness of the harmful environmental impacts and health hazards associated with traditional chemical pesticides has seen a shift towards more sustainable pest control methods. Biopesticides, with their low toxicity levels and reduced environmental footprint, fit perfectly into this changing paradigm. Moreover, refinements in IPM practices like better pest monitoring, advanced biological control tactics, and improved pest resistance management are amplifying the potential of biopesticides. This, in turn, is anticipated to fuel the global demand for biopesticides. Additionally, increasing governmental support and favorable regulations for environmentally sustainable solutions are further propelling this growth. Therefore, it is evident that advancements in IPM will play a significant role in boosting the global biopesticides market.

Segmental Insights

Type Insights

Based on the Type, the bioinsecticides segment is projected to dominate the market during the forecast period. This is due to the increasing use of bioinsecticides as a response to the growing resistance of pests and the revival of agricultural production. Insect pests have long been known to cause damage to plant growth and crops, both during harvest and in storage, resulting in significant agricultural losses. Moreover, the infestation caused by these pests not only affects the crops' marketability but also poses a threat to their overall quality. In light of regulatory bans and the phase-out of essential active components, there is a pressing need for alternative approaches to effectively control invasive pests. As a consequence, the market is witnessing a surge in the demand for bioinsecticides, which not only provide effective pest control but also ensure the preservation of bugs' natural adversaries, minimize environmental pollution, and prevent the accumulation of residues in agricultural goods. This shift towards bioinsecticides marks a significant advancement in sustainable pest management practices, offering a promising solution for the agricultural industry.

Application Insights

Based on the Application, the foliar spray segment is projected to be the fastest-growing segment in the Biopesticides Market during the forecast period. Farmers frequently employ foliar spray because it aids in pest management in the affected areas of the plant. This method involves applying a liquid solution directly to the leaves, allowing for targeted and efficient treatment. Because it is simple to use and safe to apply, it is considered to be more effective in controlling pests compared to other methods. Additionally, the market for foliar spray methods of application is expanding due to increased mechanization in agriculture. For instance, the use of aerial spraying of crop protection products using airplanes and drones has gained popularity, further driving the demand for foliar spray products.

Regional Insights

The North American region, including the United States, has emerged as a dominant player in the global market, commanding the largest share in 2022. Renowned for its export of a wide range of fruits and vegetables, the US stands out as one of the leading countries driving this trend. With increasing pressure to meet international export

standards, farmers in the region are rapidly adopting biological crop protection inputs to ensure the quality and safety of their produce.

This shift towards biopesticides is not only driven by the need to comply with global standards but also by the rising consumer demand for organic food. As more and more individuals prioritize healthy and sustainable choices, farmers are compelled to address concerns regarding residue levels in foods. By embracing biopesticides, they can effectively mitigate these concerns while catering to the growing market demand for organic produce. Moreover, the North American region boasts a significant presence of key biopesticide manufacturers. This concentration of expertise and resources has further fueled investments and research in the field of biological crop protection products. As a result, the region continues to witness advancements in innovative and effective solutions that promote sustainable agriculture practices, benefiting both farmers and consumers alike.

Key Market Players

BASF SE

Bayer AG

Biobest Group NV

Certis USA L.L.C

Novozymes A/S

Marrone Bio innovations

Syngenta AG

Som Phytopharma India Ltd

Valent Biosciences LLC

Report Scope:

In this report, the Global Bio Pesticides Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Bio Pesticides Market, By Type:

Bio fungicides

Bioherbicides

Bioinsecticides

Bio Pesticides Market, By Crop Type:

Cash Crops

Horticultural Crops

Row Crops

Bio Pesticides Market, By Application:

Foliar spray

Soil treatment

Seed treatment

Bio Pesticides Market, By Formulation:

Dry

Liquid

Bio Pesticides Market, By Region:

North America

United States

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

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

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

Available Customizations:

Global Bio Pesticides market report with the given market data, Tech Sci Research offers customizations according to 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 to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validations
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL BIO PESTICIDES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Bio fungicides, Bioherbicides, Bioinsecticides)
 - 5.2.2. By Crop Type (Cash Crops, Horticultural Crops, Row Crops)
 - 5.2.3. By Application (Foliar spray, Soil treatment, Seed treatment)
 - 5.2.4. By Formulation (Dry, Liquid)

- 5.2.5. By Region
- 5.2.6. By Company (2022)
- 5.3. Market Map

6. NORTH AMERICA BIO PESTICIDES MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Crop Type
 - 6.2.3. By Application
 - 6.2.4. By Formulation
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Bio Pesticides Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Crop Type
 - 6.3.1.2.3. By Application
 - 6.3.1.2.4. By Formulation
 - 6.3.2. Canada Bio Pesticides Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Crop Type
 - 6.3.2.2.3. By Application
 - 6.3.2.2.4. By Formulation
 - 6.3.3. Mexico Bio Pesticides Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Crop Type
 - 6.3.3.2.3. By Application
 - 6.3.3.2.4. By Formulation

7. EUROPE BIO PESTICIDES MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Crop Type

7.2.3. By Application

7.2.4. By Formulation

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Bio Pesticides Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Crop Type

7.3.1.2.3. By Application

7.3.1.2.4. By Formulation

7.3.2. United Kingdom Bio Pesticides Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Crop Type

7.3.2.2.3. By Application

7.3.2.2.4. By Formulation

7.3.3. Italy Bio Pesticides Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Crop Type

7.3.3.2.3. By Application

7.3.3.2.4. By Formulation

7.3.4. France Bio Pesticides Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Crop Type
 - 7.3.4.2.3. By Application
 - 7.3.4.2.4. By Formulation
- 7.3.5. Spain Bio Pesticides Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Crop Type
 - 7.3.5.2.3. By Application
 - 7.3.5.2.4. By Formulation

8. ASIA-PACIFIC BIO PESTICIDES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Crop Type
 - 8.2.3. By Application
 - 8.2.4. By Formulation
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Bio Pesticides Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Crop Type
 - 8.3.1.2.3. By Application
 - 8.3.1.2.4. By Formulation
 - 8.3.2. India Bio Pesticides Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Crop Type

- 8.3.2.2.3. By Application
- 8.3.2.2.4. By Formulation
- 8.3.3. Japan Bio Pesticides Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Crop Type
 - 8.3.3.2.3. By Application
 - 8.3.3.2.4. By Formulation
- 8.3.4. South Korea Bio Pesticides Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Crop Type
 - 8.3.4.2.3. By Application
 - 8.3.4.2.4. By Formulation
- 8.3.5. Australia Bio Pesticides Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Crop Type
 - 8.3.5.2.3. By Application
 - 8.3.5.2.4. By Formulation

9. SOUTH AMERICA BIO PESTICIDES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Crop Type
 - 9.2.3. By Application
 - 9.2.4. By Formulation
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Bio Pesticides Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Crop Type
 - 9.3.1.2.3. By Application
 - 9.3.1.2.4. By Formulation
- 9.3.2. Argentina Bio Pesticides Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Crop Type
 - 9.3.2.2.3. By Application
 - 9.3.2.2.4. By Formulation
- 9.3.3. Colombia Bio Pesticides Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Crop Type
 - 9.3.3.2.3. By Application
 - 9.3.3.2.4. By Formulation

10. MIDDLE EAST AND AFRICA BIO PESTICIDES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Crop Type
 - 10.2.3. By Application
 - 10.2.4. By Formulation
 - 10.2.5. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Bio Pesticides Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Type
- 10.3.1.2.2. By Crop Type
- 10.3.1.2.3. By Application
- 10.3.1.2.4. By Formulation
- 10.3.2. Saudi Arabia Bio Pesticides Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Crop Type
 - 10.3.2.2.3. By Application
 - 10.3.2.2.4. By Formulation
- 10.3.3. UAE Bio Pesticides Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Crop Type
 - 10.3.3.2.3. By Application
 - 10.3.3.2.4. By Formulation
- 10.4. Drivers
- 10.5. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Development
- 11.2. Mergers & Acquisitions
- 11.3. Product Launches

12. GLOBAL BIO PESTICIDES MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

14. COMPETITIVE LANDSCAPE

14.1. BASF SE

14.1.1. Business Overview

14.1.2. Service Offerings

14.1.3. Recent Developments

14.1.4. Key Personnel

14.1.5. SWOT Analysis

14.2. Bayer AG

14.3. Biobest Group NV

14.4. Certis USA L.L.C

14.5. Novozymes A/S

14.6. Marrone Bio innovations

14.7. Syngenta AG

14.8. Som Phytopharma India Ltd

14.9. Valent Biosciences LLC

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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