

# **Biopesticides Market Report by Product (Bioherbicides, Bioinsecticides, Biofungicides, and Others), Formulation (Liquid, Dry), Source (Microbials, Plant Extract, Biochemicals), Mode of Application (Foliar Spray, Seed Treatment, Soil Treatment, Post-Harvest), Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, and Others), and Region 2024-2032**

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## **Abstracts**

The global biopesticides market size reached US\$ 7.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 20.5 Billion by 2032, exhibiting a growth rate (CAGR) of 12.1% during 2024-2032. The growing demand for sustainable and environmentally friendly agricultural practices, rising awareness about the potential health risks associated with chemical residues, and increasing popularity of pesticide resistance management are some of the major factors propelling the market.

Biopesticides are naturally occurring substances that are derived from living organisms, such as plants, bacteria, and fungi, that are used to control pests and diseases in agriculture. They are environmentally friendly alternatives to traditional chemical pesticides. They have a targeted mode of action that affects only specific pests and leaves non-target organisms unharmed. They typically have minimal residual impact on the environment and human health and reduce the risks associated with chemical pesticides. As they play a crucial role in maintaining a sustainable and eco-friendly environment, the demand for biopesticides is increasing worldwide.

At present, the rising demand for safer pest management solutions is supporting the

growth of the market. Besides this, the increasing adoption of biopesticides, as they effectively control pests while minimizing negative ecological and health impacts, is strengthening the growth of the market. Additionally, the growing concerns about food safety and quality among individuals across the globe are positively influencing the market. Apart from this, innovations in formulation techniques, genetic engineering, and the understanding of biological interactions for improved efficacy and consistency of biopesticides are offering lucrative growth opportunities to industry investors. Furthermore, the rising preference for organic farming around the world is bolstering the growth of the market. In line with this, the increasing need to reduce the chances of chemical contamination in crops is propelling the growth of the market.

#### Biopesticides Market Trends/Drivers:

##### Rising demand for sustainable agricultural practices

The rising demand for sustainable agricultural practices across the globe is contributing to the growth of the market. In line with this, consumers are increasingly becoming more conscious of environmental and health concerns associated with conventional chemical pesticides. Besides this, there is an increase in the preference for eco-friendly and sustainable alternatives that do not provide any harm to human health. Biopesticides offer a more environmentally friendly pest management solution as they are derived from natural sources and have minimal impact on non-target organisms, soil quality, and water systems. Furthermore, governing agencies are implementing various policies to encourage sustainable agriculture and reduce chemical pesticide usage, which is positively influencing the market.

##### Increasing awareness about health risks associated with chemical residues

The rising awareness about the potential health risks associated with chemical residues among individuals and farmers is bolstering the growth of the market. In addition, governing agencies of numerous countries are implementing stringent regulations on pesticide residues in food and are spreading awareness among consumers about the potential health risks associated with chemical residues, which is offering a positive market outlook. There is a rise in the demand for safer pest control options. Biopesticides are generally considered safe for human consumption and offer a solution that aligns with these concerns. Furthermore, consumers are preferring to purchase products that are perceived as free from harmful chemical residues.

##### Growing popularity of pesticide resistance management

The growing popularity of pesticide resistance management due to the increasing need for sustainable and effective pest control strategies is supporting the growth of the market. Traditional chemical pesticides often target pests with a specific mode of action that leads to the selection of resistant populations over time. Biopesticides have diverse modes of action that provide an effective tool to manage and delay the development of resistance. In line with this, farmers can achieve more sustainable and long-term control of pests while reducing the reliance on chemical pesticides by incorporating biopesticides into a broader pest management approach. Furthermore, the rising need for effective resistance management is strengthening the growth of the market.

#### Biopesticides Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global biopesticides market report, along with forecasts at the global, regional and country levels for 2024-2032. Our report has categorized the market based on product, formulation, source, mode of application, and crop type.

#### Breakup by Product:

- Bioherbicides
- Bioinsecticides
- Biofungicides
- Others

Bioinsecticides represent the largest market segment

The report has provided a detailed breakup and analysis of the market based on the product. This includes bioherbicides, bioinsecticides, biofungicides, and others. According to the report, bioinsecticides represented the largest segment. Bioinsecticide products specifically target insects and their larvae while minimizing adverse effects on non-target organisms and the environment. They include various formulations, such as microbial insecticides, botanical insecticides, and biochemical insecticides. They comprise live microorganisms, such as bacteria, fungi, and viruses, that infect and kill insects. In addition, botanical bioinsecticides are derived from plant extracts and compounds that disrupt pest behavior and development. They consist of naturally occurring substances that interfere with insect physiology. These products offer targeted pest control, mitigate the risk of pesticide resistance, and align with sustainable agricultural practices.

#### Breakup by Formulation:

Liquid

Dry

Liquid accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the formulation. This includes liquid and dry. According to the report, liquid represented the largest segment. Liquid formulations are a versatile and widely adopted form of delivering solutions to crops. These formulations consist of biopesticide active ingredients dissolved or suspended in liquid carriers, such as water, oils, or organic solvents. They offer ease of application, as they can be conveniently sprayed onto crops using existing equipment. They provide uniform coverage and ensure effective pest control across various plant surfaces. They provide improved adhesion and distribution on plant leaves that enhance the contact between pests and biopesticides. Moreover, they can be customized with additives to improve stability, shelf life, and overall performance.

Breakup by Source:

Microbials

Plant Extract

Biochemicals

Microbials hold the biggest market share

The report has provided a detailed breakup and analysis of the market based on the source. This includes microbials, plant extracts, and biochemicals. According to the report, microbials represented the largest segment. Microbials are derived from microorganisms, such as bacteria, fungi, and viruses, that are utilized for their natural abilities to control pests. They act through various mechanisms, such as infection, competition, and toxin production. Bacterial biopesticides like *Bacillus thuringiensis* (Bt) produce proteins toxic to specific insect pests, while fungal biopesticides like *Beauveria bassiana* infect insects upon contact. Microbials are highly specific that target only certain pests, which reduces harm to beneficial insects and non-target organisms. Moreover, they can be integrated into pest management programs to mitigate the development of resistance.

Breakup by Mode of Application:

Foliar Spray  
Seed Treatment  
Soil Treatment  
Post-Harvest

Foliar spray dominates the market share

The report has provided a detailed breakup and analysis of the market based on the mode of application. This includes foliar spray, seed treatment, soil treatment, and post-harvest. According to the report, foliar spray represented the largest segment. Foliar spray involves applying these solutions directly onto the leaves of plants. This method delivers solutions in liquid form through sprayers and allows thorough coverage of foliage surfaces where pests are commonly found. Foliar spray is particularly useful for controlling pests that feed on leaves, stems, and fruits. It allows for targeted application, minimizes exposure to non-target organisms, and reduces environmental impact. Additionally, it can be conveniently integrated into existing agricultural practices, which makes it a practical choice for farmers.

Breakup by Crop Type:

Cereals and Grains  
Oilseeds and Pulses  
Fruits and Vegetables  
Others

Fruits and vegetables represent the largest market segment

The report has provided a detailed breakup and analysis of the market based on the crop type. This includes cereals and grains, oilseeds and pulses, fruits and vegetables, and others. According to the report, fruits and vegetables represented the largest segment. Biopesticides offer a sustainable and eco-friendly solution for managing pests in fruits and vegetables. The rising consumer preferences for pesticide-free products, food safety concerns, and regulations limiting pesticide residues is impelling the growth of the market. They effectively target pests while reducing the environmental impact and minimizing the risk of chemical residues on edible portions. Their compatibility with integrated pest management approaches further enhances their appeal. Consumers are seeking healthier and sustainably produced food, which is offering a positive market outlook.

**Breakup by Region:**

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance, accounting for the largest biopesticides market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

North America held the biggest market share due to the increasing environmental concerns among individuals. In addition, regulatory support and stringent standards for

pesticide residues are strengthening the growth of the market in the region. Apart from this, the increasing development of effective and targeted biopesticide solutions is offering a positive market outlook. In line with this, the increasing preference for organic food products among the masses is supporting the growth of the market in the North America region.

#### Competitive Landscape:

Key players are investing in research and development (R&D) activities to enhance the efficacy, stability, and safety of their products. They are exploring innovative formulations, optimizing production processes, and identifying new strains of microorganisms for biopesticide development. Apart from this, many companies are expanding their product portfolios by introducing new formulations, active ingredients, and application methods. This enables them to cater to a wider range of pests and crops, meeting diverse customer needs. In line with this, major manufacturers are actively working to meet regulatory standards and gain approvals for their products. They also ensure compliance with local and international regulations to boost consumer confidence and facilitate market access.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

BASF

Bayer AG

Certis USA LLC

FMC Corporation

Isagro

Koppert Biological Systems

Marrone Bio Innovations

Novozymes Biologicals

Stockton (Israel) Ltd.

Syngenta Crop Protection AG

The Dow Chemical Company

Valent BioSciences LLC.

#### Recent Developments:

In 2022, FMC Corporation, a leading global agricultural sciences company, launched a new brand identity for its Plant Health business to reflect its continuing growth and expansion of its biologicals platform that represents a diverse group of crop protection

and stimulant products derived from living organisms and naturally occurring compounds.

In 2022, Novozymes, signed a strategic collaboration agreement with AgroFresh and Certis Biologicals for developing biological-based solutions for controlling fungal pathogens that affect fruits, vegetables, and flowers.

In April 2020, Syngenta, a leading agricultural company, and Novozymes, the world leader in biological solutions, announced the commercialization phase of TAEGRO, a unique biofungicide in Europe and Latin America.

### Key Questions Answered in This Report

1. What is the market size for the global biopesticides market?
2. What is the global biopesticides market growth?
3. What are the global biopesticides market drivers?
4. What are the key industry trends in the global biopesticides market?
5. What is the impact of COVID-19 on the global biopesticides market?
6. What is the global biopesticides market breakup by product?
7. What is the global biopesticides market breakup by formulation?
8. What is the global biopesticides market breakup by source?
9. What is the global biopesticides market breakup by mode of application?
10. What is the global biopesticides market breakup by crop type?
11. What are the major regions in the global biopesticides market?
12. Who are the key companies/players in the global biopesticides market?



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