

Crop Biological Protection Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Crop Biological Protection Market Overview

The global crop biological protection market is witnessing significant growth as the agricultural industry seeks sustainable and eco-friendly alternatives to traditional chemical pesticides. Biological protection solutions, including microbial pesticides, biochemical pesticides, and plant-incorporated protectants (PIPs), are increasingly being adopted in response to rising consumer demand for organic and environmentally friendly agricultural products. This market is driven by the need for effective pest and disease management, along with the growing emphasis on reducing the ecological footprint of farming practices.

Market Size

The crop biological protection market is expected to experience steady growth over the forecast period, with a compound annual growth rate (CAGR) estimated to range from 8% to 10%. The market's expansion is primarily fueled by the increasing shift toward sustainable farming practices, heightened awareness about the environmental impact of conventional pesticides, and regulatory support for biopesticide adoption.

Market Share & Trends Analysis

By Application

The crop biological protection market is segmented by application into fruits and vegetables, cereals and pulses, and other crops. The demand for crop biological protection varies across these applications:

Fruits and Vegetables: The fruits and vegetables segment is expected to dominate the market, with a projected CAGR of 9% to 11%, driven by the rising consumer preference for organic produce and the need for safe pest management in high-value crops.

Cereals and Pulses: The cereals and pulses segment is also expected to witness strong growth, with a CAGR of 7% to 9%, as farmers increasingly adopt biopesticides to enhance crop yield and quality while minimizing pesticide residue.

Other Crops: The "Other Crops" category, which includes a variety of crops like oilseeds, flowers, and spices, is anticipated to see moderate growth, with a CAGR of 6% to 8%, as biological protection solutions find niche applications across different crop types.

By Product Type

The crop biological protection market is further segmented by product type, with microbial pesticides, biochemical pesticides, plant-incorporated protectants (PIPs), and other specialized products being employed to address diverse pest and disease challenges:

Microbial Pesticides: Microbial pesticides are expected to hold the largest market share, growing at a CAGR of 8% to 10%. This segment benefits from the growing use of beneficial microbes such as bacteria, fungi, and viruses that target specific pests while being safe for the environment and non-target organisms.

Biochemical Pesticides: The biochemical pesticides segment is projected to experience strong growth, with a CAGR of 7% to 9%, driven by innovations in plant-derived compounds and pheromones that provide sustainable pest management options without the toxicity of conventional chemicals.

Plant-Incorporated Protectants (PIPs): Plant-incorporated protectants (PIPs), which involve genetic modification to produce pest-resistant crops, are expected to grow at a moderate pace, with a CAGR of 5% to 7%, driven by advancements in biotechnology and regulatory approval for new PIP crops.

Others: The "Others" category, including biostimulants and bio-based growth enhancers, is expected to see moderate growth, with a CAGR of 6% to 8%, as these solutions support overall plant health and resilience against pest and disease pressure.

By Key Market Players

The crop biological protection market is highly competitive, with several key players offering a range of innovative solutions to meet the increasing demand for sustainable

pest and disease management:

Bayer Crop Science: A major player in the market, Bayer Crop Science provides a range of biopesticides and integrated pest management solutions tailored to diverse crop types and agricultural needs.

Valent BioSciences: Valent BioSciences is a leading producer of biological control products, offering microbial and biochemical pesticides for sustainable farming practices.

Certis USA: Certis USA specializes in providing a wide range of biopesticides for fruits, vegetables, and other crops, focusing on safety and efficacy for both conventional and organic farming systems.

Koppert: Koppert is a prominent player known for its extensive range of biological crop protection products, including beneficial insects, biopesticides, and plant growth regulators.

Syngenta: Syngenta provides innovative solutions for biological crop protection, with a strong emphasis on biocontrol products and integrated pest management practices for sustainable agriculture.

BASF: BASF offers a diverse portfolio of biological crop protection products, focusing on microbial and biochemical solutions to enhance crop productivity while protecting the environment.

Corteva Agriscience: Corteva is a leading agricultural company that offers a range of biopesticides designed to support sustainable farming practices, including microbial and biochemical solutions for pest and disease control.

Andermatt Biocontrol: Andermatt Biocontrol specializes in the development and distribution of biological control products, including beneficial fungi, bacteria, and viruses that provide sustainable pest control for a variety of crops.

FMC Corporation: FMC Corporation offers a comprehensive portfolio of biopesticides, focusing on integrated solutions that help farmers manage pests while minimizing the use of synthetic chemicals.

Marrone Bio: Marrone Bio specializes in biological solutions for crop protection, including microbial and biochemical pesticides that offer environmentally friendly pest management solutions for the agricultural industry.

Isagro: Isagro provides a range of biopesticides and crop protection solutions designed to protect crops from pests, diseases, and environmental stressors while promoting sustainable farming practices.

Som Phytopharma India: Som Phytopharma is a key player in the Indian market, offering biopesticides and biological control products designed to support sustainable agricultural practices in the region.

Novozymes: Novozymes is a leader in biotechnology, providing innovative biological products for pest and disease control that are effective, safe, and environmentally

friendly.

Bionema: Bionema focuses on providing environmentally friendly pest control products, with a strong emphasis on microbial biopesticides that are suitable for organic farming systems.

Jiangsu Luye: Jiangsu Luye is a Chinese company specializing in the production of biopesticides and biological control products for crop protection, including solutions for sustainable pest management in diverse agricultural sectors.

Chengdu New Sun: Chengdu New Sun is a leading producer of biological pesticides and plant protection products, providing solutions for pest and disease management in China and beyond.

SEIPASA: SEIPASA is a key player in the biological crop protection market, offering a wide range of biopesticides and organic solutions designed for use in various agricultural sectors.

Coromandel: Coromandel provides biological crop protection products, with a focus on sustainable solutions for pest and disease management in crops such as fruits, vegetables, and cereals.

Jiangxi Xinlong Biological: Jiangxi Xinlong specializes in providing biological control products, including biopesticides and microbial pesticides, to support sustainable agriculture in China.

Nippon Paper Industries: Nippon Paper Industries offers a range of biopesticides and biological protection products to enhance crop yield and pest resistance in forestry and agriculture.

Stora Enso: Stora Enso focuses on sustainable agricultural solutions, providing biopesticides and plant protection products designed to reduce environmental impact in farming practices.

By Region

The crop biological protection market is expected to witness varying growth rates across different regions:

North America: North America is expected to grow at a strong pace, with a CAGR of 8% to 10%, driven by increasing demand for organic and sustainable agricultural practices, as well as regulatory support for biopesticide adoption.

Europe: The European market is projected to grow steadily, with a CAGR of 7% to 9%, as governments and consumers continue to push for sustainable farming solutions and stricter regulations on chemical pesticide use.

Asia-Pacific: The Asia-Pacific region is expected to see the highest growth, with a CAGR of 9% to 12%, as developing countries like India and China rapidly adopt sustainable

farming practices and biopesticides.

Latin America: Latin America is expected to grow at a moderate rate, with a CAGR of 7% to 9%, as the demand for biopesticides rises in countries like Brazil and Argentina.

Middle East & Africa: The Middle East and Africa are expected to experience slower growth, with a CAGR of 5% to 7%, as pest control solutions evolve in response to changing agricultural needs and climate conditions.

Market Forecasts (2025-2030)

Growth in Key Segments

Fruits and Vegetables: The fruits and vegetables segment will continue to be a key driver of growth, driven by increasing demand for organic produce and sustainable pest control methods.

Cereals and Pulses: The cereals and pulses segment is expected to see continued strong growth, driven by the increasing adoption of biopesticides to enhance productivity and crop quality.

Microbial Pesticides: Microbial pesticides will remain a leading product category, benefiting from their environmental safety and effectiveness against a broad spectrum of pests.

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