

Biopesticides market to hit \$ 24,158.10 mn driven by organic farming and eco-friendly innovation.

Asia-Pacific leads growth as China and India boost sustainable farming, while bioinsecticides dominate due to targeted, efficient&research-backed pest control.

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According to DataM Intelligence, The [biopesticides market](#) size was valued at approximately US\$ 7,734.43 million in 2024 , with a promising trajectory to reach US\$ 24,158.10 million by 2032, expanding at a CAGR of 15.30% during 2024-2032. Key growth drivers include rising organic food consumption,

regulatory support for eco-friendly pesticides, innovations in microbial and plant-based formulations, and expanding adoption in emerging economies. Among the leading segments, bioinsecticides dominate due to their effectiveness and extensive research backing.

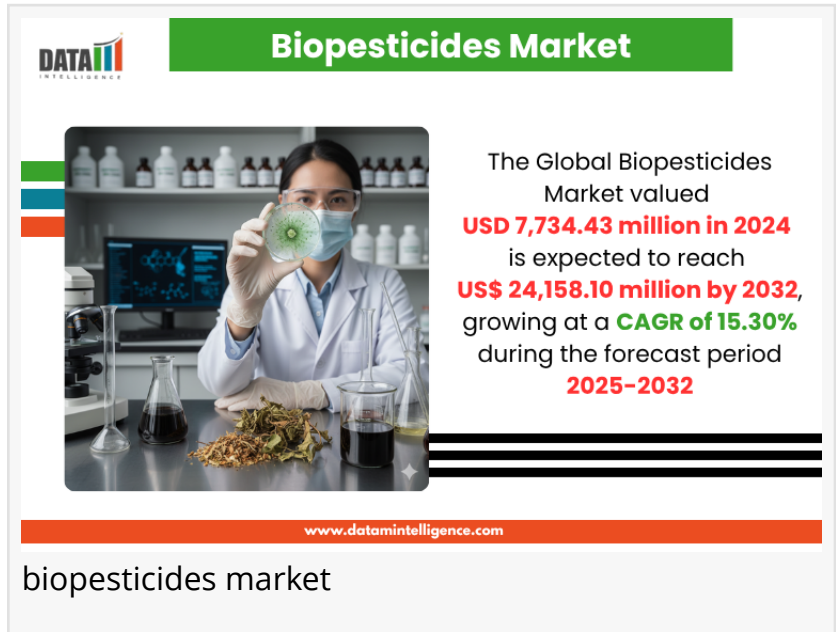
Geographically, Asia Pacific emerges as the fastest-growing and most promising region, led

predominantly by China and India, driven by government initiatives promoting sustainable farming and consumer awareness.

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The biopesticides market is accelerating worldwide, supported by organic food demand, eco-friendly policies, and microbial innovations, with Asia-Pacific emerging as the fastest-growing region.”

DataM Intelligence



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<https://www.datamintelligence.com/download-sample/bio-pesticides-market>

Key Highlights from the Report

□ The biopesticides market is projected to grow from US\$

7,734.43 million in 2024 to US\$ 24,158.10 million by 2032

- Asia Pacific is the fastest-growing region due to government support and rising organic farming.
- Bioinsecticides hold the largest market share owing to their targeted pest control capabilities.
- Increasing regulations against synthetic pesticides globally boost biopesticide adoption.
- Innovations in microbial formulations enhance efficacy and shelf life of biopesticides.
- Major players include BASF SE, Bayer AG, Corteva Agriscience, and UPL Ltd., with active R&D investments.

Market Segmentation

By product type, the biopesticides market comprises bioinsecticides, biofungicides, bioherbicides, bionematicides, and others, with bioinsecticides being the leading segment. This dominance is attributed to their wide applicability across crops and superior pest specificity reducing collateral damage to beneficial organisms. Biofungicides and bioherbicides are growing rapidly, propelled by increasing fungal disease and weed control requirements under organic practices.

By crop type, biopesticides are extensively used in cereals & grains, fruits & vegetables, oilseeds & pulses, plantation crops, turf & ornamentals, and others. Among these, fruits and vegetables demand the highest volume of biopesticides due to their vulnerability to pests and strong consumer preference for residue-free produce.

By formulation, they are available mainly in liquid and dry forms. Liquid formulations are favored for ease of application and higher efficacy, especially in foliar sprays. Application modes include seed treatment, soil treatment, foliar spraying, and post-harvest treatment, with foliar spraying being the most common method.

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Regional Insights

The Asia Pacific region, notably China and India, leads biopesticide market growth, supported by government subsidies, bans on harmful pesticides, and a rising organic farming community. North America remains a significant market with steady growth due to legislative support for integrated pest control and high consumer demand for pesticide-free food. Europe also holds a robust market share, driven by strict pesticide regulations and sustainability initiatives.

Latin America, the Middle East, and Africa are emerging markets where rising agricultural exports and the need for sustainable cultivation are generating fresh demand. However, adoption varies with local regulatory frameworks and awareness levels.

Market Dynamics

Market Drivers: Increasing consumer preference for organic foods, coupled with regulatory restrictions on chemical pesticides, propels demand for biopesticides. Environmental concerns about soil and water contamination further motivate farmers to shift towards bio-based pest control. Additionally, ongoing innovation in microbial and botanical biopesticides enhances efficacy, broadening their appeal.

Market Restraints: Challenges include higher cost relative to chemical pesticides, inconsistent field performance due to environmental sensitivity, and lack of awareness among small-scale farmers in developing regions. Regulatory approval processes can be lengthy and complex, occasionally slowing new product introductions.

Market Opportunities: Expanding use of genetically modified crops compatible with biopesticides, growing investments in R&D for novel bioactive compounds, and increasing adoption in non-traditional markets present significant growth avenues. Furthermore, advancements in nano-formulations and precision application technologies are poised to improve biopesticide performance and acceptance.

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Reasons to Buy the Report

- Comprehensive market size and forecast data through 2032.
- In-depth segmentation analysis by product type, crop type, formulation, and application.
- Detailed regional insights covering emerging and developed markets.
- Competitive landscape with profiles of leading players and recent developments.
- Strategic analysis of market drivers, restraints, and growth opportunities.

Frequently Asked Questions (FAQs)

- How big is the global biopesticides market?
- What are the key growth drivers in the bioinsecticides segment?
- Who are the key players in the global biopesticides market?
- What is the projected growth rate for biopesticides through 2032?
- Which region is expected to dominate the biopesticides market during the forecast period?

Company Insights

- BASF SE
- Bayer AG
- Corteva Agriscience
- FMC Corporation

- UPL Ltd.
- Novozymes A/S
- Syngenta Group
- Koppert Biological Systems
- Certis Biologicals (formerly Certis USA LLC)
- Andermatt Biocontrol AG

Recent developments:

-In October 2025, Corteva Agriscience introduced a new microbial biopesticide targeting resistant insect species in specialty crops. The formulation enhances pest control with improved environmental safety. It strengthens the U.S. movement toward sustainable and low-toxicity crop protection.

-In September 2025, FMC Corporation expanded its biopesticide R&D center in California to accelerate development of bio-based nematicides and fungal control products. The facility supports rapid screening of natural-origin actives. It boosts U.S. leadership in biologically driven crop protection.

-In August 2025, Marrone Bio Innovations launched next-generation biofungicides using advanced fermentation technology. The products deliver higher efficacy against soil-borne pathogens. They reinforce the shift toward eco-friendly solutions in U.S. agriculture.

Conclusion

The biopesticides market is on a dynamic growth path, driven by increasing demand for sustainable agriculture and organic food production. Innovations in bioactive formulations, supportive government policies, and growing environmental awareness underscore the expansive potential of biopesticides globally. As the market matures, integration with advanced agricultural practices and regulatory harmonization will further accelerate adoption, ensuring biopesticides remain at the forefront of eco-friendly crop protection solutions.

This detailed and SEO-optimized article provides a comprehensive view of the biopesticides market with integrated keywords and data from the DataM Intelligence report and other leading sources, fulfilling the requested structure and depth.

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