

Botanical Biopesticide Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Botanical Biopesticide Market Overview

The botanical biopesticide market is witnessing significant growth, driven by increasing demand for eco-friendly and sustainable agricultural solutions. With the growing emphasis on organic farming and the need for safer pest control methods, botanical biopesticides are gaining popularity in crop protection. These biopesticides are derived from plants and are used to control pests while minimizing environmental impact. They are particularly sought after in organic farming practices and in regions with strict regulations on chemical pesticides. Key players in the market include Kemira Industries, Syngenta, Bayer, BASF, Corteva, STK Bio-Ag, Stockton, Marente, Sumitomo Chemical, Croda, and Thymox.

Market Size

The botanical biopesticide market is expected to grow at a compound annual growth rate (CAGR) of 6.0% to 8.0% from 2025 to 2030. The growing shift towards sustainable agriculture, coupled with the increasing need to control pest resistance to synthetic chemicals, is driving the demand for botanical alternatives.

Market Share & Trends Analysis

By Product Type

The market is segmented into oil-based and water-based botanical biopesticides, with each type catering to different agricultural needs:

Oil-based Biopesticides: These are expected to account for 45% to 50% of the market share, owing to their ability to penetrate plant tissues and effectively

control pests. This segment is projected to grow at a CAGR of 6.5% to 7.5%.

Water-based Biopesticides: Water-based biopesticides are increasingly favored for their ease of application and effectiveness against a broad spectrum of pests. They are expected to hold 50% to 55% of the market share, with a growth rate of 7.0% to 8.0% over the forecast period.

By Application

Botanical biopesticides are used across a variety of crop categories, including food crops, cash crops, feed crops, and others:

Food Crops: The largest segment, as botanical biopesticides are in high demand for organic food production and for protecting crops from pests without the use of synthetic chemicals. This segment is expected to account for 50% to 55% of the market share, with a projected growth rate of 7.0% to 8.0%.

Cash Crops: This segment is growing as farmers seek more sustainable solutions for high-value crops like cotton, tobacco, and coffee. Cash crops are expected to hold 20% to 25% of the market share, growing at a CAGR of 6.5% to 7.5%.

Feed Crops: While smaller in share, the use of botanical biopesticides in feed crops is increasing as part of the broader trend toward sustainable agricultural practices. The feed crop segment is forecast to hold 15% to 20% of the market, with a CAGR of 6.0% to 7.0%.

Other Applications: This includes non-traditional crops and specialty applications, expected to account for 5% to 10% of the market share, growing at a CAGR of 5.0% to 6.0%.

By Key Players

Several key players are driving innovation and market growth in the botanical biopesticide market:

Kemin Industries: A leader in providing botanical-based crop protection solutions, with a strong presence in both developed and emerging markets.

Syngenta: A major player in the global agricultural sector, Syngenta offers a range of biopesticides, including botanical-based options, to meet the growing demand for sustainable farming.

Bayer: Known for its extensive portfolio in the agrochemical market, Bayer is investing in botanical biopesticides as part of its sustainability strategy.

BASF: BASF is a key innovator in the agricultural sector, providing a range of biopesticide products, including botanical solutions, for diverse crop applications.

Corteva: A major player offering advanced biopesticides, including those derived from botanical sources, to support sustainable agriculture globally.

STK Bio-Ag: Specializes in botanical biopesticides, providing targeted solutions for pest control in various crops.

Stockton: Known for its sustainable crop protection products, Stockton focuses on botanical biopesticides to address environmental concerns in agriculture.

Momentive: A key player in the biopesticide market, Momentive offers botanical solutions that help control pests and diseases in crops.

Sumitomo Chemical: This company is investing in sustainable agricultural solutions, including botanical biopesticides, to meet market demands for eco-friendly pest control.

Croda: A major supplier of specialty ingredients for agriculture, including botanical-based biopesticides, with a focus on reducing environmental impact in farming.

Thymox: Known for its plant-based biopesticides, Thymox is focused on providing effective and eco-friendly solutions to the agricultural industry.

By Region

The botanical biopesticide market is growing globally, with significant regional variations in demand:

North America: Dominates the market with a share of 30% to 35%, driven by strong organic farming practices and stringent regulations on chemical pesticides. The region is expected to grow at a CAGR of 7.0% to 8.0%.

Europe: A strong market for sustainable agricultural solutions, Europe is forecast to hold 25% to 30% of the market share, growing at a CAGR of 6.5% to 7.5%.

Asia-Pacific: A rapidly growing market, particularly in countries like India, China, and Japan, where agricultural sustainability is becoming a priority. The region is expected to capture 20% to 25% of the market share, with a CAGR of 7.0% to 8.0%.

Latin America: With increasing demand for organic farming, Latin America is projected to hold 15% to 20% of the market share, growing at a CAGR of 6.0% to 7.0%.

Middle East & Africa: An emerging market, driven by the need for sustainable farming solutions in arid and semi-arid regions. This market is expected to hold 5% to 10% of the market share, with a CAGR of 5.5% to 6.5%.

Segment Forecasts (2025-2030)

Growth in Key Segments

Water-based Biopesticides: Expected to experience the highest growth with a CAGR of 7.0% to 8.0%.

Food Crops Application: Projected to continue dominating the market, growing at a CAGR of 7.0% to 8.0%.

Asia-Pacific Region: Anticipated to be the fastest-growing region with a CAGR of 7.0% to 8.0%.

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