

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

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Abstracts

Biological Pest Control Market Summary

Introduction

Biological pest control involves using natural enemies—predatory mites, insects, nematodes, and bioinsecticides—to manage pests, offering a sustainable alternative to chemical pesticides. Essential in eco-friendly agriculture, it features low environmental impact and specificity. Available as predatory mites, insects, nematodes, and bioinsecticides, it serves vegetables & fruits, turf & gardening, and crop applications. Growth is driven by organic farming trends, regulatory limits on chemicals, and pest resistance, with innovations in efficacy and delivery advancing the market.

Market Size and Growth Forecast

The global Biological Pest Control market is valued at USD 3.4-4.5 billion in 2025, with a CAGR of 8.5%-9.5% from 2025 to 2030, reaching USD 5.2-6.5 billion by 2030. Expansion reflects sustainable pest management trends.

Regional Analysis

Europe holds 30-35%, growing at 8-9%, led by Germany, France, and the Netherlands with strong organic farming policies. North America accounts for 25-30%, growing at 7.5-8.5%, with the US leading due to organic demand and Canada's focus on sustainability. Asia Pacific, at 25-30%, grows fastest at 9-10%, driven by China's organic push, India's farming needs, and Japan's quality emphasis. The Rest of the World, 10-15%, grows at 8.5-9.5%, with Brazil and Kenya advancing. Europe favors predatory mites; Asia Pacific prioritizes cost-effective bioinsecticides.

Product Type Analysis

The market includes Predatory Mites, Insects, Nematodes, and Bioinsecticides. Predatory Mites, growing at 8-9%, lead with greenhouse trends. Insects, at 8.5-9.5%, rise with organic trends. Nematodes, at 9-10%, grow with soil pest needs. Bioinsecticides, at 8-9%, suit broad use with formulation trends. Trends focus on efficacy and integration.

Application Analysis

Applications are vegetables & fruits, turf & gardening, and crop. Vegetables & Fruits, growing at 9-10%, dominate with organic demand, favoring predatory mites and insects. Turf & Gardening, at 8-9%, rises with landscaping needs, using bioinsecticides. Crop, at 8.5-9.5%, grows with staple needs, favoring nematodes. Trends emphasize sustainable pest control.

Key Market Players

Leading companies in the Biological Pest Control market include:

BASF: A German leader, BASF offers bioinsecticides and nematode solutions for sustainable pest control. Known for innovation, it serves global vegetables & fruits markets with high-efficacy products enhancing crop protection.

InVivo: A French firm, InVivo provides predatory mites and insects for organic farming. With a focus on sustainability, it supports Europe's turf & gardening with reliable biocontrol solutions.

Dudutech: A Kenyan company, Dudutech specializes in predatory mites and insects for pest management. Known for supporting Africa's organic farming, it serves vegetables & fruits markets with practical solutions.

Koppert: A Dutch leader, Koppert offers a range of biocontrol solutions including predatory mites and bioinsecticides. Renowned for quality, it serves Europe's greenhouse agriculture with effective pest control.

Biobest Group: A Belgian firm, Biobest provides insects and mites for pest control. With a focus on organic farming, it supports Europe's vegetables & fruits with sustainable solutions.

Arbico: A US company, Arbico delivers nematodes and bioinsecticides for organic pest control. Known for accessibility, it serves North America's turf & gardening with reliable products.

Applied Bio-nomics: A Canadian supplier, Applied Bio-nomics offers predatory mites and insects for greenhouse use. With a focus on efficacy, it supports North America's organic farming with tailored solutions.

ENTOCARE: A Dutch firm, ENTOCARE provides insect-based biocontrol for crops. Known for innovation, it serves Europe's vegetables & fruits markets with effective pest management.

BioBee: An Israeli company, BioBee specializes in predatory mites and insects for pest control. With a focus on sustainability, it serves global markets with reliable solutions for organic farming.

Anatis Bioprotection: A Canadian supplier, Anatis delivers nematodes and bioinsecticides for pest control. Known for quality, it supports North America's turf & gardening with eco-friendly products.

Rentokil: A UK firm, Rentokil offers bioinsecticides for commercial pest control. With a focus on scalability, it serves Europe's crop markets with practical solutions.

Beneficial Insectary: A US company, Beneficial Insectary provides insects for biocontrol. Known for efficacy, it supports North America's vegetables & fruits with sustainable pest management.

F.A.R: An Italian firm, F.A.R delivers predatory mites for organic farming. With a focus on quality, it supports Europe's greenhouse agriculture with effective solutions.

Kenya Biologics: A Kenyan supplier, Kenya Biologics offers bioinsecticides for pest control. Known for affordability, it serves Africa's crop markets with practical biocontrol products.

Xilema: A Spanish company, Xilema provides nematodes for soil pest management. With a focus on sustainability, it supports Europe's vegetables & fruits with reliable solutions.

SDS Biotech: A Japanese firm, SDS Biotech delivers bioinsecticides for crop protection. Known for innovation, it serves Japan's markets with high-efficacy products.

Fujian Yan Xuan Biological Control Technology: A Chinese supplier, Fujian Yan Xuan offers cost-effective biocontrol solutions. With a focus on nematodes, it supports China's crop markets with practical products.

Henan Jiyuan Baiyun Industry: A Chinese company, Henan Jiyuan provides bioinsecticides for pest control. Known for affordability, it serves China's vegetables & fruits with reliable solutions.

E-nema GmbH: A German firm, E-nema specializes in nematodes for biocontrol. With a focus on quality, it supports Europe's organic farming with effective pest management.

Biohelp: An Austrian supplier, Biohelp offers predatory mites and insects for pest control. Known for sustainability, it serves Europe's turf & gardening with practical solutions.

Envu: A Bayer spin-off, Envu delivers bioinsecticides for crop protection. With a focus on innovation, it serves global markets with high-efficacy, eco-friendly products.

Valent BioSciences: A US company, Valent provides microbial bioinsecticides for pest control. Known for efficacy, it supports North America's vegetables & fruits with sustainable solutions.

Certis USA: A US firm, Certis offers a range of biocontrol products including bioinsecticides. With a focus on organic farming, it serves North America's markets with

reliable pest management.

These companies compete on efficacy, sustainability, and cost, advancing the market through innovation and partnerships.

Porter's Five Forces Analysis

The threat of new entrants is low to medium due to biological expertise and regulatory barriers, though niche players may emerge. Substitutes like chemical pesticides pose a moderate threat, countered by sustainability needs. Buyer power is medium to high, with large growers negotiating, unlike smaller ones. Supplier power is medium, with biological agents offset by production needs. Rivalry is high, with efficacy and cost as key differentiators.

Market Opportunities and Challenges

Opportunities

Organic farming trends drive biocontrol demand.

Advances in efficacy enhance appeal.

Emerging markets in Asia Pacific grow with sustainable needs.

Challenges

High costs of advanced products limit adoption in budget areas.

Regulatory demands raise entry costs.

Competition from chemical pesticides pressures cost-effectiveness.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Biological Pest Control Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST BIOLOGICAL PEST CONTROL MARKET IN NORTH AMERICA (2020-2030)

8.1 Biological Pest Control Market Size

8.2 Biological Pest Control Market by End Use

8.3 Competition by Players/Suppliers

8.4 Biological Pest Control Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST BIOLOGICAL PEST CONTROL MARKET IN SOUTH AMERICA (2020-2030)

9.1 Biological Pest Control Market Size

9.2 Biological Pest Control Market by End Use

9.3 Competition by Players/Suppliers

9.4 Biological Pest Control Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST BIOLOGICAL PEST CONTROL MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Biological Pest Control Market Size

10.2 Biological Pest Control Market by End Use

10.3 Competition by Players/Suppliers

10.4 Biological Pest Control Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST BIOLOGICAL PEST CONTROL MARKET IN EUROPE (2020-2030)

- 11.1 Biological Pest Control Market Size
- 11.2 Biological Pest Control Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Biological Pest Control Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST BIOLOGICAL PEST CONTROL MARKET IN MEA (2020-2030)

- 12.1 Biological Pest Control Market Size
- 12.2 Biological Pest Control Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Biological Pest Control Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL BIOLOGICAL PEST CONTROL MARKET (2020-2025)

- 13.1 Biological Pest Control Market Size
- 13.2 Biological Pest Control Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Biological Pest Control Market Size by Type

CHAPTER 14 GLOBAL BIOLOGICAL PEST CONTROL MARKET FORECAST (2025-2030)

- 14.1 Biological Pest Control Market Size Forecast
- 14.2 Biological Pest Control Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Biological Pest Control Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 BASF
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Biological Pest Control Information
 - 15.1.3 SWOT Analysis of BASF
 - 15.1.4 BASF Biological Pest Control Revenue, Gross Margin and Market Share
(2020-2025)
- 15.2 InVivo
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Biological Pest Control Information
 - 15.2.3 SWOT Analysis of InVivo
 - 15.2.4 InVivo Biological Pest Control Revenue, Gross Margin and Market Share
(2020-2025)
- 15.3 Dudutech
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Biological Pest Control Information
 - 15.3.3 SWOT Analysis of Dudutech
 - 15.3.4 Dudutech Biological Pest Control Revenue, Gross Margin and Market Share
(2020-2025)
- 15.4 Koppert
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Biological Pest Control Information
 - 15.4.3 SWOT Analysis of Koppert
 - 15.4.4 Koppert Biological Pest Control Revenue, Gross Margin and Market Share

(2020-2025)

15.5 Biobest Group

15.5.1 Company Profile

15.5.2 Main Business and Biological Pest Control Information

15.5.3 SWOT Analysis of Biobest Group

15.5.4 Biobest Group Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.6 Arbico

15.6.1 Company Profile

15.6.2 Main Business and Biological Pest Control Information

15.6.3 SWOT Analysis of Arbico

15.6.4 Arbico Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.7 Applied Bio-nomics

15.7.1 Company Profile

15.7.2 Main Business and Biological Pest Control Information

15.7.3 SWOT Analysis of Applied Bio-nomics

15.7.4 Applied Bio-nomics Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.8 ENTOCARE

15.8.1 Company Profile

15.8.2 Main Business and Biological Pest Control Information

15.8.3 SWOT Analysis of ENTOCARE

15.8.4 ENTOCARE Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.9 BioBee

15.9.1 Company Profile

15.9.2 Main Business and Biological Pest Control Information

15.9.3 SWOT Analysis of BioBee

15.9.4 BioBee Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.10 Anatis Bioprotection

15.10.1 Company Profile

15.10.2 Main Business and Biological Pest Control Information

15.10.3 SWOT Analysis of Anatis Bioprotection

15.10.4 Anatis Bioprotection Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)

15.11 Rentokil

15.11.1 Company Profile

15.11.2 Main Business and Biological Pest Control Information	
15.11.3 SWOT Analysis of Rentokil	
15.11.4 Rentokil Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)	
15.12 Beneficial Insectary	
15.12.1 Company Profile	
15.12.2 Main Business and Biological Pest Control Information	
15.12.3 SWOT Analysis of Beneficial Insectary	
15.12.4 Beneficial Insectary Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)	
15.13 F.A.R	
15.13.1 Company Profile	
15.13.2 Main Business and Biological Pest Control Information	
15.13.3 SWOT Analysis of F.A.R	
15.13.4 F.A.R Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)	
15.14 Kenya Biologics	
15.14.1 Company Profile	
15.14.2 Main Business and Biological Pest Control Information	
15.14.3 SWOT Analysis of Kenya Biologics	
15.14.4 Kenya Biologics Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)	
15.15 Xilema	
15.15.1 Company Profile	
15.15.2 Main Business and Biological Pest Control Information	
15.15.3 SWOT Analysis of Xilema	
15.15.4 Xilema Biological Pest Control Revenue, Gross Margin and Market Share (2020-2025)	
Please ask for sample pages for full companies list	
Tables and Figures	
Table Abbreviation and Acronyms	
Table Research Scope of Biological Pest Control Report	
Table Data Sources of Biological Pest Control Report	
Table Major Assumptions of Biological Pest Control Report	
Figure Market Size Estimated Method	
Figure Major Forecasting Factors	
Figure Biological Pest Control Picture	
Table Biological Pest Control Classification	
Table Biological Pest Control Applications	

Table Drivers of Biological Pest Control Market
Table Restraints of Biological Pest Control Market
Table Opportunities of Biological Pest Control Market
Table Threats of Biological Pest Control Market
Table Covid-19 Impact For Biological Pest Control Market
Table Raw Materials Suppliers
Table Different Production Methods of Biological Pest Control
Table Cost Structure Analysis of Biological Pest Control
Table Key End Users
Table Latest News of Biological Pest Control Market
Table Merger and Acquisition
Table Planned/Future Project of Biological Pest Control Market
Table Policy of Biological Pest Control Market
Table 2020-2030 North America Biological Pest Control Market Size
Figure 2020-2030 North America Biological Pest Control Market Size and CAGR
Table 2020-2030 North America Biological Pest Control Market Size by Application
Table 2020-2025 North America Biological Pest Control Key Players Revenue
Table 2020-2025 North America Biological Pest Control Key Players Market Share
Table 2020-2030 North America Biological Pest Control Market Size by Type
Table 2020-2030 United States Biological Pest Control Market Size
Table 2020-2030 Canada Biological Pest Control Market Size
Table 2020-2030 Mexico Biological Pest Control Market Size
Table 2020-2030 South America Biological Pest Control Market Size
Figure 2020-2030 South America Biological Pest Control Market Size and CAGR
Table 2020-2030 South America Biological Pest Control Market Size by Application
Table 2020-2025 South America Biological Pest Control Key Players Revenue
Table 2020-2025 South America Biological Pest Control Key Players Market Share
Table 2020-2030 South America Biological Pest Control Market Size by Type
Table 2020-2030 Brazil Biological Pest Control Market Size
Table 2020-2030 Argentina Biological Pest Control Market Size
Table 2020-2030 Chile Biological Pest Control Market Size
Table 2020-2030 Peru Biological Pest Control Market Size
Table 2020-2030 Asia & Pacific Biological Pest Control Market Size
Figure 2020-2030 Asia & Pacific Biological Pest Control Market Size and CAGR
Table 2020-2030 Asia & Pacific Biological Pest Control Market Size by Application
Table 2020-2025 Asia & Pacific Biological Pest Control Key Players Revenue
Table 2020-2025 Asia & Pacific Biological Pest Control Key Players Market Share
Table 2020-2030 Asia & Pacific Biological Pest Control Market Size by Type
Table 2020-2030 China Biological Pest Control Market Size

Table 2020-2030 India Biological Pest Control Market Size
Table 2020-2030 Japan Biological Pest Control Market Size
Table 2020-2030 South Korea Biological Pest Control Market Size
Table 2020-2030 Southeast Asia Biological Pest Control Market Size
Table 2020-2030 Australia Biological Pest Control Market Size
Table 2020-2030 Europe Biological Pest Control Market Size
Figure 2020-2030 Europe Biological Pest Control Market Size and CAGR
Table 2020-2030 Europe Biological Pest Control Market Size by Application
Table 2020-2025 Europe Biological Pest Control Key Players Revenue
Table 2020-2025 Europe Biological Pest Control Key Players Market Share
Table 2020-2030 Europe Biological Pest Control Market Size by Type
Table 2020-2030 Germany Biological Pest Control Market Size
Table 2020-2030 France Biological Pest Control Market Size
Table 2020-2030 United Kingdom Biological Pest Control Market Size
Table 2020-2030 Italy Biological Pest Control Market Size
Table 2020-2030 Spain Biological Pest Control Market Size
Table 2020-2030 Belgium Biological Pest Control Market Size
Table 2020-2030 Netherlands Biological Pest Control Market Size
Table 2020-2030 Austria Biological Pest Control Market Size
Table 2020-2030 Poland Biological Pest Control Market Size
Table 2020-2030 Russia Biological Pest Control Market Size
Table 2020-2030 MEA Biological Pest Control Market Size
Figure 2020-2030 MEA Biological Pest Control Market Size and CAGR
Table 2020-2030 MEA Biological Pest Control Market Size by Application
Table 2020-2025 MEA Biological Pest Control Key Players Revenue
Table 2020-2025 MEA Biological Pest Control Key Players Market Share
Table 2020-2030 MEA Biological Pest Control Market Size by Type
Table 2020-2030 Egypt Biological Pest Control Market Size
Table 2020-2030 Israel Biological Pest Control Market Size
Table 2020-2030 South Africa Biological Pest Control Market Size
Table 2020-2030 Gulf Cooperation Council Countries Biological Pest Control Market Size
Table 2020-2030 Turkey Biological Pest Control Market Size
Table 2020-2025 Global Biological Pest Control Market Size by Region
Table 2020-2025 Global Biological Pest Control Market Size Share by Region
Table 2020-2025 Global Biological Pest Control Market Size by Application
Table 2020-2025 Global Biological Pest Control Market Share by Application
Table 2020-2025 Global Biological Pest Control Key Vendors Revenue
Figure 2020-2025 Global Biological Pest Control Market Size and Growth Rate

Table 2020-2025 Global Biological Pest Control Key Vendors Market Share
Table 2020-2025 Global Biological Pest Control Market Size by Type
Table 2020-2025 Global Biological Pest Control Market Share by Type
Table 2025-2030 Global Biological Pest Control Market Size by Region
Table 2025-2030 Global Biological Pest Control Market Size Share by Region
Table 2025-2030 Global Biological Pest Control Market Size by Application
Table 2025-2030 Global Biological Pest Control Market Share by Application
Table 2025-2030 Global Biological Pest Control Key Vendors Revenue
Figure 2025-2030 Global Biological Pest Control Market Size and Growth Rate
Table 2025-2030 Global Biological Pest Control Key Vendors Market Share
Table 2025-2030 Global Biological Pest Control Market Size by Type
Table 2025-2030 Biological Pest Control Global Market Share by Type

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