

Global Biological Insecticide Market Research Report 2025(Status and Outlook)

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Abstracts

Biological insecticides represent a category of pest control products derived from natural sources?such as bacteria, fungi, viruses, or plant extracts?that target specific pests while minimizing harm to non-target organisms, including humans, beneficial insects, and the environment. These products function through mechanisms like infection, toxin production, or repellence, offering an alternative or supplement to synthetic chemical pesticides. The market is characterized by its alignment with sustainable agriculture, integrated pest management (IPM) programs, and growing regulatory and consumer pressure for reduced chemical residues in food and ecosystems. Key drivers include increasing organic farming practices, rising awareness of environmental and health impacts of conventional pesticides, and advancements in microbial and biochemical research enhancing product efficacy and shelf life. However, challenges such as slower action compared to synthetic options, higher costs, narrower pest specificity, and variable performance under different environmental conditions influence adoption rates. Geographically, demand is robust in North America and Europe due to stringent regulations and high organic acreage, while Asia-Pacific shows rapid growth fueled by expanding agricultural sectors and increasing governmental support for sustainable practices. The competitive landscape features both specialized biocontrol firms and large agrochemical companies expanding their portfolios through innovation and acquisitions to capture market share in this evolving segment.

The global Biological Insecticide market size was estimated at USD 4200.0 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 12.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Biological Insecticide market, covering all critical facets from a broad macroeconomic overview to

detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Biological Insecticide market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Biological Insecticide market.

Global Biological Insecticide Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

DowDuPont

Novozymes A/S (DK)

Bayer CropScience AG (DE)

Valent Biosciences Corp (US)
Arysta LifeSciences (US)
BASF SE (DE)
Becker Underwood Inc (US)
AgBiTech Pty Ltd. (AU)
Seipasa (ES)
Andermatt Biocontrol (CH)
Syngenta Crop ProtectionsLLC (US)
FMC Agricultural Products (US)
Certis USA L.L.C. (US)

Market Segmentation (by Type)

Microbial Pesticide
Plant Pesticide
Biochemical Pesticide

Market Segmentation (by Application)

Grains & Cereals
Oil Seeds
Fruits & Vegetables
Turf & Ornamental Grass
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Biological Insecticide Market

Overview of the regional outlook of the Biological Insecticide Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Biological Insecticide Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Biological Insecticide, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint

the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Biological Insecticide

1.2 Key Market Segments

1.2.1 Biological Insecticide Segment by Type

1.2.2 Biological Insecticide Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 BIOLOGICAL INSECTICIDE MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Biological Insecticide Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Biological Insecticide Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 BIOLOGICAL INSECTICIDE MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Biological Insecticide Product Life Cycle

3.3 Global Biological Insecticide Sales by Manufacturers (2020-2025)

3.4 Global Biological Insecticide Revenue Market Share by Manufacturers (2020-2025)

3.5 Biological Insecticide Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Biological Insecticide Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Biological Insecticide Market Competitive Situation and Trends

3.8.1 Biological Insecticide Market Concentration Rate

3.8.2 Global 5 and 10 Largest Biological Insecticide Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 BIOLOGICAL INSECTICIDE INDUSTRY CHAIN ANALYSIS

- 4.1 Biological Insecticide Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF BIOLOGICAL INSECTICIDE MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Biological Insecticide Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Biological Insecticide Market
- 5.7 ESG Ratings of Leading Companies

6 BIOLOGICAL INSECTICIDE MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Biological Insecticide Sales Market Share by Type (2020-2025)
- 6.3 Global Biological Insecticide Market Size Market Share by Type (2020-2025)
- 6.4 Global Biological Insecticide Price by Type (2020-2025)

7 BIOLOGICAL INSECTICIDE MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Biological Insecticide Market Sales by Application (2020-2025)
- 7.3 Global Biological Insecticide Market Size (M USD) by Application (2020-2025)

7.4 Global Biological Insecticide Sales Growth Rate by Application (2020-2025)

8 BIOLOGICAL INSECTICIDE MARKET SALES BY REGION

8.1 Global Biological Insecticide Sales by Region

8.1.1 Global Biological Insecticide Sales by Region

8.1.2 Global Biological Insecticide Sales Market Share by Region

8.2 Global Biological Insecticide Market Size by Region

8.2.1 Global Biological Insecticide Market Size by Region

8.2.2 Global Biological Insecticide Market Size Market Share by Region

8.3 North America

8.3.1 North America Biological Insecticide Sales by Country

8.3.2 North America Biological Insecticide Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Biological Insecticide Sales by Country

8.4.2 Europe Biological Insecticide Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Biological Insecticide Sales by Region

8.5.2 Asia Pacific Biological Insecticide Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Biological Insecticide Sales by Country

8.6.2 South America Biological Insecticide Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Biological Insecticide Sales by Region
- 8.7.2 Middle East and Africa Biological Insecticide Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 BIOLOGICAL INSECTICIDE MARKET PRODUCTION BY REGION

- 9.1 Global Production of Biological Insecticide by Region(2020-2025)
- 9.2 Global Biological Insecticide Revenue Market Share by Region (2020-2025)
- 9.3 Global Biological Insecticide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Biological Insecticide Production
 - 9.4.1 North America Biological Insecticide Production Growth Rate (2020-2025)
 - 9.4.2 North America Biological Insecticide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Biological Insecticide Production
 - 9.5.1 Europe Biological Insecticide Production Growth Rate (2020-2025)
 - 9.5.2 Europe Biological Insecticide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Biological Insecticide Production (2020-2025)
 - 9.6.1 Japan Biological Insecticide Production Growth Rate (2020-2025)
 - 9.6.2 Japan Biological Insecticide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Biological Insecticide Production (2020-2025)
 - 9.7.1 China Biological Insecticide Production Growth Rate (2020-2025)
 - 9.7.2 China Biological Insecticide Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 DowDuPont
 - 10.1.1 DowDuPont Basic Information
 - 10.1.2 DowDuPont Biological Insecticide Product Overview
 - 10.1.3 DowDuPont Biological Insecticide Product Market Performance
 - 10.1.4 DowDuPont Business Overview
 - 10.1.5 DowDuPont SWOT Analysis

- 10.1.6 DowDuPont Recent Developments
- 10.2 Novozymes A/S (DK)
 - 10.2.1 Novozymes A/S (DK) Basic Information
 - 10.2.2 Novozymes A/S (DK) Biological Insecticide Product Overview
 - 10.2.3 Novozymes A/S (DK) Biological Insecticide Product Market Performance
 - 10.2.4 Novozymes A/S (DK) Business Overview
 - 10.2.5 Novozymes A/S (DK) SWOT Analysis
 - 10.2.6 Novozymes A/S (DK) Recent Developments
- 10.3 Bayer CropScience AG (DE)
 - 10.3.1 Bayer CropScience AG (DE) Basic Information
 - 10.3.2 Bayer CropScience AG (DE) Biological Insecticide Product Overview
 - 10.3.3 Bayer CropScience AG (DE) Biological Insecticide Product Market Performance
 - 10.3.4 Bayer CropScience AG (DE) Business Overview
 - 10.3.5 Bayer CropScience AG (DE) SWOT Analysis
 - 10.3.6 Bayer CropScience AG (DE) Recent Developments
- 10.4 Valent Biosciences Corp (US)
 - 10.4.1 Valent Biosciences Corp (US) Basic Information
 - 10.4.2 Valent Biosciences Corp (US) Biological Insecticide Product Overview
 - 10.4.3 Valent Biosciences Corp (US) Biological Insecticide Product Market Performance
 - 10.4.4 Valent Biosciences Corp (US) Business Overview
 - 10.4.5 Valent Biosciences Corp (US) Recent Developments
- 10.5 Arysta LifeSciences (US)
 - 10.5.1 Arysta LifeSciences (US) Basic Information
 - 10.5.2 Arysta LifeSciences (US) Biological Insecticide Product Overview
 - 10.5.3 Arysta LifeSciences (US) Biological Insecticide Product Market Performance
 - 10.5.4 Arysta LifeSciences (US) Business Overview
 - 10.5.5 Arysta LifeSciences (US) Recent Developments
- 10.6 BASF SE (DE)
 - 10.6.1 BASF SE (DE) Basic Information
 - 10.6.2 BASF SE (DE) Biological Insecticide Product Overview
 - 10.6.3 BASF SE (DE) Biological Insecticide Product Market Performance
 - 10.6.4 BASF SE (DE) Business Overview
 - 10.6.5 BASF SE (DE) Recent Developments
- 10.7 Becker Underwood Inc (US)
 - 10.7.1 Becker Underwood Inc (US) Basic Information
 - 10.7.2 Becker Underwood Inc (US) Biological Insecticide Product Overview
 - 10.7.3 Becker Underwood Inc (US) Biological Insecticide Product Market Performance
 - 10.7.4 Becker Underwood Inc (US) Business Overview

- 10.7.5 Becker Underwood Inc (US) Recent Developments
- 10.8 AgBiTech Pty Ltd. (AU)
 - 10.8.1 AgBiTech Pty Ltd. (AU) Basic Information
 - 10.8.2 AgBiTech Pty Ltd. (AU) Biological Insecticide Product Overview
 - 10.8.3 AgBiTech Pty Ltd. (AU) Biological Insecticide Product Market Performance
 - 10.8.4 AgBiTech Pty Ltd. (AU) Business Overview
 - 10.8.5 AgBiTech Pty Ltd. (AU) Recent Developments
- 10.9 Seipasa (ES)
 - 10.9.1 Seipasa (ES) Basic Information
 - 10.9.2 Seipasa (ES) Biological Insecticide Product Overview
 - 10.9.3 Seipasa (ES) Biological Insecticide Product Market Performance
 - 10.9.4 Seipasa (ES) Business Overview
 - 10.9.5 Seipasa (ES) Recent Developments
- 10.10 Andermatt Biocontrol (CH)
 - 10.10.1 Andermatt Biocontrol (CH) Basic Information
 - 10.10.2 Andermatt Biocontrol (CH) Biological Insecticide Product Overview
 - 10.10.3 Andermatt Biocontrol (CH) Biological Insecticide Product Market Performance
 - 10.10.4 Andermatt Biocontrol (CH) Business Overview
 - 10.10.5 Andermatt Biocontrol (CH) Recent Developments
- 10.11 Syngenta Crop ProtectionsLLC (US)
 - 10.11.1 Syngenta Crop ProtectionsLLC (US) Basic Information
 - 10.11.2 Syngenta Crop ProtectionsLLC (US) Biological Insecticide Product Overview
 - 10.11.3 Syngenta Crop ProtectionsLLC (US) Biological Insecticide Product Market Performance
 - 10.11.4 Syngenta Crop ProtectionsLLC (US) Business Overview
 - 10.11.5 Syngenta Crop ProtectionsLLC (US) Recent Developments
- 10.12 FMC Agricultural Products (US)
 - 10.12.1 FMC Agricultural Products (US) Basic Information
 - 10.12.2 FMC Agricultural Products (US) Biological Insecticide Product Overview
 - 10.12.3 FMC Agricultural Products (US) Biological Insecticide Product Market Performance
 - 10.12.4 FMC Agricultural Products (US) Business Overview
 - 10.12.5 FMC Agricultural Products (US) Recent Developments
- 10.13 Certis USA L.L.C. (US)
 - 10.13.1 Certis USA L.L.C. (US) Basic Information
 - 10.13.2 Certis USA L.L.C. (US) Biological Insecticide Product Overview
 - 10.13.3 Certis USA L.L.C. (US) Biological Insecticide Product Market Performance
 - 10.13.4 Certis USA L.L.C. (US) Business Overview
 - 10.13.5 Certis USA L.L.C. (US) Recent Developments

11 BIOLOGICAL INSECTICIDE MARKET FORECAST BY REGION

11.1 Global Biological Insecticide Market Size Forecast

11.2 Global Biological Insecticide Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Biological Insecticide Market Size Forecast by Country

11.2.3 Asia Pacific Biological Insecticide Market Size Forecast by Region

11.2.4 South America Biological Insecticide Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Biological Insecticide by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Biological Insecticide Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Biological Insecticide by Type (2026-2033)

12.1.2 Global Biological Insecticide Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Biological Insecticide by Type (2026-2033)

12.2 Global Biological Insecticide Market Forecast by Application (2026-2033)

12.2.1 Global Biological Insecticide Sales (K MT) Forecast by Application

12.2.2 Global Biological Insecticide Market Size (M USD) Forecast by Application
(2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Biological Insecticide Market Size Comparison by Region (M USD)

Table 5. Global Biological Insecticide Sales (K MT) by Manufacturers (2020-2025)

Table 6. Global Biological Insecticide Sales Market Share by Manufacturers (2020-2025)

Table 7. Global Biological Insecticide Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global Biological Insecticide Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Biological Insecticide as of 2024)

Table 10. Global Market Biological Insecticide Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Biological Insecticide Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Biological Insecticide Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Biological Insecticide Sales by Type (K MT)

Table 26. Global Biological Insecticide Market Size by Type (M USD)

Table 27. Global Biological Insecticide Sales (K MT) by Type (2020-2025)

Table 28. Global Biological Insecticide Sales Market Share by Type (2020-2025)

Table 29. Global Biological Insecticide Market Size (M USD) by Type (2020-2025)

Table 30. Global Biological Insecticide Market Size Share by Type (2020-2025)

Table 31. Global Biological Insecticide Price (USD/KG) by Type (2020-2025)
Table 32. Global Biological Insecticide Sales (K MT) by Application
Table 33. Global Biological Insecticide Market Size by Application
Table 34. Global Biological Insecticide Sales by Application (2020-2025) & (K MT)
Table 35. Global Biological Insecticide Sales Market Share by Application (2020-2025)
Table 36. Global Biological Insecticide Market Size by Application (2020-2025) & (M USD)
Table 37. Global Biological Insecticide Market Share by Application (2020-2025)
Table 38. Global Biological Insecticide Sales Growth Rate by Application (2020-2025)
Table 39. Global Biological Insecticide Sales by Region (2020-2025) & (K MT)
Table 40. Global Biological Insecticide Sales Market Share by Region (2020-2025)
Table 41. Global Biological Insecticide Market Size by Region (2020-2025) & (M USD)
Table 42. Global Biological Insecticide Market Size Market Share by Region (2020-2025)
Table 43. North America Biological Insecticide Sales by Country (2020-2025) & (K MT)
Table 44. North America Biological Insecticide Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Biological Insecticide Sales by Country (2020-2025) & (K MT)
Table 46. Europe Biological Insecticide Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Biological Insecticide Sales by Region (2020-2025) & (K MT)
Table 48. Asia Pacific Biological Insecticide Market Size by Region (2020-2025) & (M USD)
Table 49. South America Biological Insecticide Sales by Country (2020-2025) & (K MT)
Table 50. South America Biological Insecticide Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Biological Insecticide Sales by Region (2020-2025) & (K MT)
Table 52. Middle East and Africa Biological Insecticide Market Size by Region (2020-2025) & (M USD)
Table 53. Global Biological Insecticide Production (K MT) by Region(2020-2025)
Table 54. Global Biological Insecticide Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Biological Insecticide Revenue Market Share by Region (2020-2025)
Table 56. Global Biological Insecticide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
Table 57. North America Biological Insecticide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
Table 58. Europe Biological Insecticide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
Table 59. Japan Biological Insecticide Production (K MT), Revenue (US\$ Million), Price

(USD/KG) and Gross Margin (2020-2025)

Table 60. China Biological Insecticide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. DowDuPont Basic Information

Table 62. DowDuPont Biological Insecticide Product Overview

Table 63. DowDuPont Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. DowDuPont Business Overview

Table 65. DowDuPont SWOT Analysis

Table 66. DowDuPont Recent Developments

Table 67. Novozymes A/S (DK) Basic Information

Table 68. Novozymes A/S (DK) Biological Insecticide Product Overview

Table 69. Novozymes A/S (DK) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Novozymes A/S (DK) Business Overview

Table 71. Novozymes A/S (DK) SWOT Analysis

Table 72. Novozymes A/S (DK) Recent Developments

Table 73. Bayer CropScience AG (DE) Basic Information

Table 74. Bayer CropScience AG (DE) Biological Insecticide Product Overview

Table 75. Bayer CropScience AG (DE) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. Bayer CropScience AG (DE) Business Overview

Table 77. Bayer CropScience AG (DE) SWOT Analysis

Table 78. Bayer CropScience AG (DE) Recent Developments

Table 79. Valent Biosciences Corp (US) Basic Information

Table 80. Valent Biosciences Corp (US) Biological Insecticide Product Overview

Table 81. Valent Biosciences Corp (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. Valent Biosciences Corp (US) Business Overview

Table 83. Valent Biosciences Corp (US) Recent Developments

Table 84. Arysta LifeSciences (US) Basic Information

Table 85. Arysta LifeSciences (US) Biological Insecticide Product Overview

Table 86. Arysta LifeSciences (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 87. Arysta LifeSciences (US) Business Overview

Table 88. Arysta LifeSciences (US) Recent Developments

Table 89. BASF SE (DE) Basic Information

Table 90. BASF SE (DE) Biological Insecticide Product Overview

Table 91. BASF SE (DE) Biological Insecticide Sales (K MT), Revenue (M USD), Price

(USD/KG) and Gross Margin (2020-2025)

Table 92. BASF SE (DE) Business Overview

Table 93. BASF SE (DE) Recent Developments

Table 94. Becker Underwood Inc (US) Basic Information

Table 95. Becker Underwood Inc (US) Biological Insecticide Product Overview

Table 96. Becker Underwood Inc (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 97. Becker Underwood Inc (US) Business Overview

Table 98. Becker Underwood Inc (US) Recent Developments

Table 99. AgBiTech Pty Ltd. (AU) Basic Information

Table 100. AgBiTech Pty Ltd. (AU) Biological Insecticide Product Overview

Table 101. AgBiTech Pty Ltd. (AU) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 102. AgBiTech Pty Ltd. (AU) Business Overview

Table 103. AgBiTech Pty Ltd. (AU) Recent Developments

Table 104. Seipasa (ES) Basic Information

Table 105. Seipasa (ES) Biological Insecticide Product Overview

Table 106. Seipasa (ES) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 107. Seipasa (ES) Business Overview

Table 108. Seipasa (ES) Recent Developments

Table 109. Andermatt Biocontrol (CH) Basic Information

Table 110. Andermatt Biocontrol (CH) Biological Insecticide Product Overview

Table 111. Andermatt Biocontrol (CH) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 112. Andermatt Biocontrol (CH) Business Overview

Table 113. Andermatt Biocontrol (CH) Recent Developments

Table 114. Syngenta Crop ProtectionsLLC (US) Basic Information

Table 115. Syngenta Crop ProtectionsLLC (US) Biological Insecticide Product Overview

Table 116. Syngenta Crop ProtectionsLLC (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 117. Syngenta Crop ProtectionsLLC (US) Business Overview

Table 118. Syngenta Crop ProtectionsLLC (US) Recent Developments

Table 119. FMC Agricultural Products (US) Basic Information

Table 120. FMC Agricultural Products (US) Biological Insecticide Product Overview

Table 121. FMC Agricultural Products (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 122. FMC Agricultural Products (US) Business Overview

Table 123. FMC Agricultural Products (US) Recent Developments

Table 124. Certis USA L.L.C. (US) Basic Information
Table 125. Certis USA L.L.C. (US) Biological Insecticide Product Overview
Table 126. Certis USA L.L.C. (US) Biological Insecticide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 127. Certis USA L.L.C. (US) Business Overview
Table 128. Certis USA L.L.C. (US) Recent Developments
Table 129. Global Biological Insecticide Sales Forecast by Region (2026-2033) & (K MT)
Table 130. Global Biological Insecticide Market Size Forecast by Region (2026-2033) & (M USD)
Table 131. North America Biological Insecticide Sales Forecast by Country (2026-2033) & (K MT)
Table 132. North America Biological Insecticide Market Size Forecast by Country (2026-2033) & (M USD)
Table 133. Europe Biological Insecticide Sales Forecast by Country (2026-2033) & (K MT)
Table 134. Europe Biological Insecticide Market Size Forecast by Country (2026-2033) & (M USD)
Table 135. Asia Pacific Biological Insecticide Sales Forecast by Region (2026-2033) & (K MT)
Table 136. Asia Pacific Biological Insecticide Market Size Forecast by Region (2026-2033) & (M USD)
Table 137. South America Biological Insecticide Sales Forecast by Country (2026-2033) & (K MT)
Table 138. South America Biological Insecticide Market Size Forecast by Country (2026-2033) & (M USD)
Table 139. Middle East and Africa Biological Insecticide Sales Forecast by Country (2026-2033) & (Units)
Table 140. Middle East and Africa Biological Insecticide Market Size Forecast by Country (2026-2033) & (M USD)
Table 141. Global Biological Insecticide Sales Forecast by Type (2026-2033) & (K MT)
Table 142. Global Biological Insecticide Market Size Forecast by Type (2026-2033) & (M USD)
Table 143. Global Biological Insecticide Price Forecast by Type (2026-2033) & (USD/KG)
Table 144. Global Biological Insecticide Sales (K MT) Forecast by Application (2026-2033)
Table 145. Global Biological Insecticide Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Biological Insecticide
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Biological Insecticide Market Size (M USD), 2024-2033
- Figure 5. Global Biological Insecticide Market Size (M USD) (2020-2033)
- Figure 6. Global Biological Insecticide Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Biological Insecticide Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Biological Insecticide Product Life Cycle
- Figure 13. Biological Insecticide Sales Share by Manufacturers in 2024
- Figure 14. Global Biological Insecticide Revenue Share by Manufacturers in 2024
- Figure 15. Biological Insecticide Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Biological Insecticide Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Biological Insecticide Revenue in 2024
- Figure 18. Industry Chain Map of Biological Insecticide
- Figure 19. Global Biological Insecticide Market PEST Analysis
- Figure 20. Global Biological Insecticide Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Biological Insecticide Market Share by Type
- Figure 27. Sales Market Share of Biological Insecticide by Type (2020-2025)
- Figure 28. Sales Market Share of Biological Insecticide by Type in 2024
- Figure 29. Market Size Share of Biological Insecticide by Type (2020-2025)
- Figure 30. Market Size Share of Biological Insecticide by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Biological Insecticide Market Share by Application

Figure 33. Global Biological Insecticide Sales Market Share by Application (2020-2025)

Figure 34. Global Biological Insecticide Sales Market Share by Application in 2024

Figure 35. Global Biological Insecticide Market Share by Application (2020-2025)

Figure 36. Global Biological Insecticide Market Share by Application in 2024

Figure 37. Global Biological Insecticide Sales Growth Rate by Application (2020-2025)

Figure 38. Global Biological Insecticide Sales Market Share by Region (2020-2025)

Figure 39. Global Biological Insecticide Market Size Market Share by Region (2020-2025)

Figure 40. North America Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Biological Insecticide Sales Market Share by Country in 2024

Figure 43. North America Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Biological Insecticide Market Size Market Share by Country in 2024

Figure 45. U.S. Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Biological Insecticide Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Biological Insecticide Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Biological Insecticide Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Biological Insecticide Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Biological Insecticide Sales Market Share by Country in 2024

Figure 53. Europe Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Biological Insecticide Market Size Market Share by Country in 2024

Figure 55. Germany Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Biological Insecticide Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Biological Insecticide Sales Market Share by Region in 2024

Figure 67. Asia Pacific Biological Insecticide Market Size Market Share by Region in 2024

Figure 68. China Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Biological Insecticide Sales and Growth Rate (K MT)

Figure 79. South America Biological Insecticide Sales Market Share by Country in 2024

Figure 80. South America Biological Insecticide Market Size and Growth Rate (M USD)

Figure 81. South America Biological Insecticide Market Size Market Share by Country in 2024

Figure 82. Brazil Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Biological Insecticide Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Biological Insecticide Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Biological Insecticide Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Biological Insecticide Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Biological Insecticide Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Biological Insecticide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Biological Insecticide Production Market Share by Region (2020-2025)

Figure 103. North America Biological Insecticide Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Biological Insecticide Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Biological Insecticide Production (K MT) Growth Rate (2020-2025)

Figure 106. China Biological Insecticide Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Biological Insecticide Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Biological Insecticide Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Biological Insecticide Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Biological Insecticide Market Share Forecast by Type (2026-2033)

Figure 111. Global Biological Insecticide Sales Forecast by Application (2026-2033)

Figure 112. Global Biological Insecticide Market Share Forecast by Application (2026-2033)

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