

Global RNAi Biopesticides Market Research Report 2026(Status and Outlook)

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Abstracts

RNA interference (RNAi) biopesticides represent an innovative plant protection product based on gene silencing technology. By utilizing double-stranded RNA (dsRNA) molecules, RNAi biopesticides can specifically target genes in pests or pathogens, disrupting their biological functions and leading to pest death or inhibition of pathogen reproduction. Compared to traditional chemical pesticides, RNAi biopesticides are environmentally friendly, highly specific, and exhibit low toxicity to non-target organisms. This technology offers a sustainable solution for modern agriculture, effectively managing pests while minimizing negative impacts on ecosystems. RNA interference (RNAi) biopesticides represent an emerging biotechnology approach increasingly applied in agricultural pest control. The current market is primarily dominated by a few technology leaders, with applications focused on high-value crops and specific pests. Due to the technology's high specificity and minimal impact on non-target organisms and the environment, it has garnered significant interest from agricultural producers and the broader industry. However, the commercialization of RNAi technology is still in its early stages, and the market remains relatively limited. As the technology matures and more products gain approval, the application scope of RNAi biopesticides is expected to expand, covering a broader range of crops and pests. Additionally, the rise of precision agriculture offers new opportunities for RNAi products, such as integration with digital agricultural technologies for precise application and performance monitoring. Moreover, with the increasing severity of pest resistance to traditional pesticides, RNAi technology is likely to play a critical role in addressing this challenge, driving further market demand. The main drivers for RNAi biopesticides include their efficiency, safety, and ability to address resistance issues associated with conventional chemical pesticides. Government policies promoting sustainable agriculture and growing consumer demand for health and environmentally friendly products also create favorable conditions for development. However, several challenges hinder the adoption of this technology,

including high R&D costs, complex manufacturing processes, and stability and delivery challenges in practical applications. Furthermore, market acceptance of new technologies and regulatory complexities pose additional barriers to growth.

The global RNAi Biopesticides market size was estimated at USD 131.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 10.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global RNAi Biopesticides 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 RNAi Biopesticides 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 RNAi Biopesticides market.

Global RNAi Biopesticides 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

Bayer
Syngenta
Corteva
BASF
JR Simplot
Greenlight Biosciences
RNAissance Ag
Pebble Labs
Renaissance BioScience
AgroSpheres
Silicon Gene
Shanghai Plant Science Biotechnology
Xiaomo Biotech

Market Segmentation (by Type)

PIP
Non-PIP

Market Segmentation (by Application)

Farmland
Orchard
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 RNAi Biopesticides Market
Overview of the regional outlook of the RNAi Biopesticides Market:

Customization of the Report

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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 RNAi Biopesticides 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 RNAi Biopesticides, 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 RNAi Biopesticides
- 1.2 Key Market Segments
 - 1.2.1 RNAi Biopesticides Segment by Type
 - 1.2.2 RNAi Biopesticides 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 RNAI BIOPESTICIDES MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global RNAi Biopesticides Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global RNAi Biopesticides Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 RNAI BIOPESTICIDES MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global RNAi Biopesticides Product Life Cycle
- 3.3 Global RNAi Biopesticides Sales by Manufacturers (2020-2025)
- 3.4 Global RNAi Biopesticides Revenue Market Share by Manufacturers (2020-2025)
- 3.5 RNAi Biopesticides Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global RNAi Biopesticides Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 RNAi Biopesticides Market Competitive Situation and Trends
 - 3.8.1 RNAi Biopesticides Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest RNAi Biopesticides Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 RNAI BIOPESTICIDES INDUSTRY CHAIN ANALYSIS

- 4.1 RNAi Biopesticides 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 RNAI BIOPESTICIDES 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 RNAi Biopesticides 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 RNAi Biopesticides Market
- 5.7 ESG Ratings of Leading Companies

6 RNAI BIOPESTICIDES MARKET SEGMENTATION BY TYPE

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

7 RNAI BIOPESTICIDES MARKET SEGMENTATION BY APPLICATION

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

7.4 Global RNAi Biopesticides Sales Growth Rate by Application (2020-2025)

8 RNAI BIOPESTICIDES MARKET SALES BY REGION

8.1 Global RNAi Biopesticides Sales by Region

8.1.1 Global RNAi Biopesticides Sales by Region

8.1.2 Global RNAi Biopesticides Sales Market Share by Region

8.2 Global RNAi Biopesticides Market Size by Region

8.2.1 Global RNAi Biopesticides Market Size by Region

8.2.2 Global RNAi Biopesticides Market Size by Region

8.3 North America

8.3.1 North America RNAi Biopesticides Sales by Country

8.3.2 North America RNAi Biopesticides 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 RNAi Biopesticides Sales by Country

8.4.2 Europe RNAi Biopesticides 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 RNAi Biopesticides Sales by Region

8.5.2 Asia Pacific RNAi Biopesticides 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 RNAi Biopesticides Sales by Country

8.6.2 South America RNAi Biopesticides 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 RNAi Biopesticides Sales by Region
- 8.7.2 Middle East and Africa RNAi Biopesticides 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 RNAI BIOPESTICIDES MARKET PRODUCTION BY REGION

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

10 KEY COMPANIES PROFILE

- 10.1 Bayer
 - 10.1.1 Bayer Basic Information
 - 10.1.2 Bayer RNAi Biopesticides Product Overview
 - 10.1.3 Bayer RNAi Biopesticides Product Market Performance
 - 10.1.4 Bayer Business Overview
 - 10.1.5 Bayer SWOT Analysis

- 10.1.6 Bayer Recent Developments
- 10.2 Syngenta
 - 10.2.1 Syngenta Basic Information
 - 10.2.2 Syngenta RNAi Biopesticides Product Overview
 - 10.2.3 Syngenta RNAi Biopesticides Product Market Performance
 - 10.2.4 Syngenta Business Overview
 - 10.2.5 Syngenta SWOT Analysis
 - 10.2.6 Syngenta Recent Developments
- 10.3 Corteva
 - 10.3.1 Corteva Basic Information
 - 10.3.2 Corteva RNAi Biopesticides Product Overview
 - 10.3.3 Corteva RNAi Biopesticides Product Market Performance
 - 10.3.4 Corteva Business Overview
 - 10.3.5 Corteva SWOT Analysis
 - 10.3.6 Corteva Recent Developments
- 10.4 BASF
 - 10.4.1 BASF Basic Information
 - 10.4.2 BASF RNAi Biopesticides Product Overview
 - 10.4.3 BASF RNAi Biopesticides Product Market Performance
 - 10.4.4 BASF Business Overview
 - 10.4.5 BASF Recent Developments
- 10.5 JR Simplot
 - 10.5.1 JR Simplot Basic Information
 - 10.5.2 JR Simplot RNAi Biopesticides Product Overview
 - 10.5.3 JR Simplot RNAi Biopesticides Product Market Performance
 - 10.5.4 JR Simplot Business Overview
 - 10.5.5 JR Simplot Recent Developments
- 10.6 Greenlight Biosciences
 - 10.6.1 Greenlight Biosciences Basic Information
 - 10.6.2 Greenlight Biosciences RNAi Biopesticides Product Overview
 - 10.6.3 Greenlight Biosciences RNAi Biopesticides Product Market Performance
 - 10.6.4 Greenlight Biosciences Business Overview
 - 10.6.5 Greenlight Biosciences Recent Developments
- 10.7 RNAissance Ag
 - 10.7.1 RNAissance Ag Basic Information
 - 10.7.2 RNAissance Ag RNAi Biopesticides Product Overview
 - 10.7.3 RNAissance Ag RNAi Biopesticides Product Market Performance
 - 10.7.4 RNAissance Ag Business Overview
 - 10.7.5 RNAissance Ag Recent Developments

10.8 Pebble Labs

10.8.1 Pebble Labs Basic Information

10.8.2 Pebble Labs RNAi Biopesticides Product Overview

10.8.3 Pebble Labs RNAi Biopesticides Product Market Performance

10.8.4 Pebble Labs Business Overview

10.8.5 Pebble Labs Recent Developments

10.9 Renaissance BioScience

10.9.1 Renaissance BioScience Basic Information

10.9.2 Renaissance BioScience RNAi Biopesticides Product Overview

10.9.3 Renaissance BioScience RNAi Biopesticides Product Market Performance

10.9.4 Renaissance BioScience Business Overview

10.9.5 Renaissance BioScience Recent Developments

10.10 AgroSpheres

10.10.1 AgroSpheres Basic Information

10.10.2 AgroSpheres RNAi Biopesticides Product Overview

10.10.3 AgroSpheres RNAi Biopesticides Product Market Performance

10.10.4 AgroSpheres Business Overview

10.10.5 AgroSpheres Recent Developments

10.11 Silicon Gene

10.11.1 Silicon Gene Basic Information

10.11.2 Silicon Gene RNAi Biopesticides Product Overview

10.11.3 Silicon Gene RNAi Biopesticides Product Market Performance

10.11.4 Silicon Gene Business Overview

10.11.5 Silicon Gene Recent Developments

10.12 Shanghai Plant Science Biotechnology

10.12.1 Shanghai Plant Science Biotechnology Basic Information

10.12.2 Shanghai Plant Science Biotechnology RNAi Biopesticides Product Overview

10.12.3 Shanghai Plant Science Biotechnology RNAi Biopesticides Product Market

Performance

10.12.4 Shanghai Plant Science Biotechnology Business Overview

10.12.5 Shanghai Plant Science Biotechnology Recent Developments

10.13 Xiaomi Biotech

10.13.1 Xiaomi Biotech Basic Information

10.13.2 Xiaomi Biotech RNAi Biopesticides Product Overview

10.13.3 Xiaomi Biotech RNAi Biopesticides Product Market Performance

10.13.4 Xiaomi Biotech Business Overview

10.13.5 Xiaomi Biotech Recent Developments

11 RNAI BIOPESTICIDES MARKET FORECAST BY REGION

- 11.1 Global RNAi Biopesticides Market Size Forecast
- 11.2 Global RNAi Biopesticides Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe RNAi Biopesticides Market Size Forecast by Country
 - 11.2.3 Asia Pacific RNAi Biopesticides Market Size Forecast by Region
 - 11.2.4 South America RNAi Biopesticides Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of RNAi Biopesticides by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global RNAi Biopesticides Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of RNAi Biopesticides by Type (2026-2035)
 - 12.1.2 Global RNAi Biopesticides Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of RNAi Biopesticides by Type (2026-2035)
- 12.2 Global RNAi Biopesticides Market Forecast by Application (2026-2035)
 - 12.2.1 Global RNAi Biopesticides Sales (K MT) Forecast by Application
 - 12.2.2 Global RNAi Biopesticides Market Size (M USD) Forecast by Application (2026-2035)

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. Global RNAi Biopesticides Market Size by Type (M USD)
- Table 4. Global RNAi Biopesticides Market Size by Application
- Table 5. RNAi Biopesticides Market Size Comparison by Region (M USD)
- Table 6. Global RNAi Biopesticides Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global RNAi Biopesticides Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global RNAi Biopesticides Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global RNAi Biopesticides Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in RNAi Biopesticides as of 2025)
- Table 11. Global Market RNAi Biopesticides Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global RNAi Biopesticides Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. RNAi Biopesticides Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global RNAi Biopesticides Sales by Type (K MT)
- Table 27. Global RNAi Biopesticides Market Size by Type (M USD)
- Table 28. Global RNAi Biopesticides Sales (K MT) by Type (2020-2025)
- Table 29. Global RNAi Biopesticides Sales Market Share by Type (2020-2025)
- Table 30. Global RNAi Biopesticides Market Size (M USD) by Type (2020-2025)
- Table 31. Global RNAi Biopesticides Market Share by Type (2020-2025)

- Table 32. Global RNAi Biopesticides Price (USD/KG) by Type (2020-2025)
- Table 33. Global RNAi Biopesticides Sales (K MT) by Application
- Table 34. Global RNAi Biopesticides Market Size by Application
- Table 35. Global RNAi Biopesticides Sales by Application (2020-2025) & (K MT)
- Table 36. Global RNAi Biopesticides Sales Market Share by Application (2020-2025)
- Table 37. Global RNAi Biopesticides Market Size by Application (2020-2025) & (M USD)
- Table 38. Global RNAi Biopesticides Market Share by Application (2020-2025)
- Table 39. Global RNAi Biopesticides Sales Growth Rate by Application (2020-2025)
- Table 40. Global RNAi Biopesticides Sales by Region (2020-2025) & (K MT)
- Table 41. Global RNAi Biopesticides Sales Market Share by Region (2020-2025)
- Table 42. Global RNAi Biopesticides Market Size by Region (2020-2025) & (M USD)
- Table 43. Global RNAi Biopesticides Market Size by Region (2020-2025)
- Table 44. North America RNAi Biopesticides Sales by Country (2020-2025) & (K MT)
- Table 45. North America RNAi Biopesticides Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe RNAi Biopesticides Sales by Country (2020-2025) & (K MT)
- Table 47. Europe RNAi Biopesticides Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific RNAi Biopesticides Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific RNAi Biopesticides Market Size by Region (2020-2025) & (M USD)
- Table 50. South America RNAi Biopesticides Sales by Country (2020-2025) & (K MT)
- Table 51. South America RNAi Biopesticides Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa RNAi Biopesticides Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa RNAi Biopesticides Market Size by Region (2020-2025) & (M USD)
- Table 54. Global RNAi Biopesticides Production (K MT) by Region(2020-2025)
- Table 55. Global RNAi Biopesticides Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global RNAi Biopesticides Revenue Market Share by Region (2020-2025)
- Table 57. Global RNAi Biopesticides Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America RNAi Biopesticides Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe RNAi Biopesticides Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan RNAi Biopesticides Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China RNAi Biopesticides Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Bayer Basic Information

Table 63. Bayer RNAi Biopesticides Product Overview

Table 64. Bayer RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Bayer Business Overview

Table 66. Bayer SWOT Analysis

Table 67. Bayer Recent Developments

Table 68. Syngenta Basic Information

Table 69. Syngenta RNAi Biopesticides Product Overview

Table 70. Syngenta RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Syngenta Business Overview

Table 72. Syngenta SWOT Analysis

Table 73. Syngenta Recent Developments

Table 74. Corteva Basic Information

Table 75. Corteva RNAi Biopesticides Product Overview

Table 76. Corteva RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Corteva Business Overview

Table 78. Corteva SWOT Analysis

Table 79. Corteva Recent Developments

Table 80. BASF Basic Information

Table 81. BASF RNAi Biopesticides Product Overview

Table 82. BASF RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. BASF Business Overview

Table 84. BASF Recent Developments

Table 85. JR Simplot Basic Information

Table 86. JR Simplot RNAi Biopesticides Product Overview

Table 87. JR Simplot RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. JR Simplot Business Overview

Table 89. JR Simplot Recent Developments

Table 90. Greenlight Biosciences Basic Information

Table 91. Greenlight Biosciences RNAi Biopesticides Product Overview

Table 92. Greenlight Biosciences RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

- Table 93. Greenlight Biosciences Business Overview
- Table 94. Greenlight Biosciences Recent Developments
- Table 95. RNAissance Ag Basic Information
- Table 96. RNAissance Ag RNAi Biopesticides Product Overview
- Table 97. RNAissance Ag RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. RNAissance Ag Business Overview
- Table 99. RNAissance Ag Recent Developments
- Table 100. Pebble Labs Basic Information
- Table 101. Pebble Labs RNAi Biopesticides Product Overview
- Table 102. Pebble Labs RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Pebble Labs Business Overview
- Table 104. Pebble Labs Recent Developments
- Table 105. Renaissance BioScience Basic Information
- Table 106. Renaissance BioScience RNAi Biopesticides Product Overview
- Table 107. Renaissance BioScience RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. Renaissance BioScience Business Overview
- Table 109. Renaissance BioScience Recent Developments
- Table 110. AgroSpheres Basic Information
- Table 111. AgroSpheres RNAi Biopesticides Product Overview
- Table 112. AgroSpheres RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. AgroSpheres Business Overview
- Table 114. AgroSpheres Recent Developments
- Table 115. Silicon Gene Basic Information
- Table 116. Silicon Gene RNAi Biopesticides Product Overview
- Table 117. Silicon Gene RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. Silicon Gene Business Overview
- Table 119. Silicon Gene Recent Developments
- Table 120. Shanghai Plant Science Biotechnology Basic Information
- Table 121. Shanghai Plant Science Biotechnology RNAi Biopesticides Product Overview
- Table 122. Shanghai Plant Science Biotechnology RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 123. Shanghai Plant Science Biotechnology Business Overview
- Table 124. Shanghai Plant Science Biotechnology Recent Developments

- Table 125. Xiaomi Biotech Basic Information
- Table 126. Xiaomi Biotech RNAi Biopesticides Product Overview
- Table 127. Xiaomi Biotech RNAi Biopesticides Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 128. Xiaomi Biotech Business Overview
- Table 129. Xiaomi Biotech Recent Developments
- Table 130. Global RNAi Biopesticides Sales Forecast by Region (2026-2035) & (K MT)
- Table 131. Global RNAi Biopesticides Market Size Forecast by Region (2026-2035) & (M USD)
- Table 132. North America RNAi Biopesticides Sales Forecast by Country (2026-2035) & (K MT)
- Table 133. North America RNAi Biopesticides Market Size Forecast by Country (2026-2035) & (M USD)
- Table 134. Europe RNAi Biopesticides Sales Forecast by Country (2026-2035) & (K MT)
- Table 135. Europe RNAi Biopesticides Market Size Forecast by Country (2026-2035) & (M USD)
- Table 136. Asia Pacific RNAi Biopesticides Sales Forecast by Region (2026-2035) & (K MT)
- Table 137. Asia Pacific RNAi Biopesticides Market Size Forecast by Region (2026-2035) & (M USD)
- Table 138. South America RNAi Biopesticides Sales Forecast by Country (2026-2035) & (K MT)
- Table 139. South America RNAi Biopesticides Market Size Forecast by Country (2026-2035) & (M USD)
- Table 140. Middle East and Africa RNAi Biopesticides Sales Forecast by Country (2026-2035) & (Units)
- Table 141. Middle East and Africa RNAi Biopesticides Market Size Forecast by Country (2026-2035) & (M USD)
- Table 142. Global RNAi Biopesticides Sales Forecast by Type (2026-2035) & (K MT)
- Table 143. Global RNAi Biopesticides Market Size Forecast by Type (2026-2035) & (M USD)
- Table 144. Global RNAi Biopesticides Price Forecast by Type (2026-2035) & (USD/KG)
- Table 145. Global RNAi Biopesticides Sales (K MT) Forecast by Application (2026-2035)
- Table 146. Global RNAi Biopesticides Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of RNAi Biopesticides
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global RNAi Biopesticides Market Size (M USD), 2025-2035
- Figure 5. Global RNAi Biopesticides Market Size (M USD) (2020-2035)
- Figure 6. Global RNAi Biopesticides Sales (K MT) & (2020-2035)
- 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. RNAi Biopesticides Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global RNAi Biopesticides Product Life Cycle
- Figure 13. RNAi Biopesticides Sales Share by Manufacturers in 2025
- Figure 14. Global RNAi Biopesticides Revenue Share by Manufacturers in 2025
- Figure 15. RNAi Biopesticides Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market RNAi Biopesticides Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by RNAi Biopesticides Revenue in 2025
- Figure 18. Industry Chain Map of RNAi Biopesticides
- Figure 19. Global RNAi Biopesticides Market PEST Analysis
- Figure 20. Global RNAi Biopesticides 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 RNAi Biopesticides Market Share by Type
- Figure 27. Sales Market Share of RNAi Biopesticides by Type (2020-2025)
- Figure 28. Sales Market Share of RNAi Biopesticides by Type in 2025
- Figure 29. Market Share of RNAi Biopesticides by Type (2020-2025)
- Figure 30. Market Share of RNAi Biopesticides by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global RNAi Biopesticides Market Share by Application

Figure 33. Global RNAi Biopesticides Sales Market Share by Application (2020-2025)

Figure 34. Global RNAi Biopesticides Sales Market Share by Application in 2025

Figure 35. Global RNAi Biopesticides Market Share by Application (2020-2025)

Figure 36. Global RNAi Biopesticides Market Share by Application in 2025

Figure 37. Global RNAi Biopesticides Sales Growth Rate by Application (2020-2025)

Figure 38. Global RNAi Biopesticides Sales Market Share by Region (2020-2025)

Figure 39. Global RNAi Biopesticides Market Size by Region (2020-2025)

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

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

Figure 42. North America RNAi Biopesticides Sales Market Share by Country in 2024

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

Figure 44. North America RNAi Biopesticides Market Size by Country in 2024

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

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

Figure 47. Canada RNAi Biopesticides Sales (K MT) and Growth Rate (2020-2025)

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

Figure 49. Mexico RNAi Biopesticides Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico RNAi Biopesticides Market Size (Units) and Growth Rate (2020-2025)

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

Figure 52. Europe RNAi Biopesticides Sales Market Share by Country in 2024

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

Figure 54. Europe RNAi Biopesticides Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

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

Figure 65. Asia Pacific RNAi Biopesticides Sales and Growth Rate (K MT)

Figure 66. Asia Pacific RNAi Biopesticides Sales Market Share by Region in 2024

Figure 67. Asia Pacific RNAi Biopesticides Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

Figure 78. South America RNAi Biopesticides Sales and Growth Rate (K MT)

Figure 79. South America RNAi Biopesticides Sales Market Share by Country in 2024

Figure 80. South America RNAi Biopesticides Market Size and Growth Rate (M USD)

Figure 81. South America RNAi Biopesticides Market Size by Country in 2024

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

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

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

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

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

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

Figure 88. Middle East and Africa RNAi Biopesticides Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa RNAi Biopesticides Sales Market Share by Region in 2024

Figure 90. Middle East and Africa RNAi Biopesticides Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa RNAi Biopesticides Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

Figure 102. Global RNAi Biopesticides Production Market Share by Region (2020-2025)

Figure 103. North America RNAi Biopesticides Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe RNAi Biopesticides Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan RNAi Biopesticides Production (K MT) Growth Rate (2020-2025)

Figure 106. China RNAi Biopesticides Production (K MT) Growth Rate (2020-2025)

Figure 107. Global RNAi Biopesticides Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global RNAi Biopesticides Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global RNAi Biopesticides Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global RNAi Biopesticides Market Share Forecast by Type (2026-2035)

Figure 111. Global RNAi Biopesticides Sales Forecast by Application (2026-2035)

Figure 112. Global RNAi Biopesticides Market Share Forecast by Application (2026-2035)

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