

# Global RNA Interference-based Biopesticides Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global RNA Interference-based Biopesticides market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

RNA interference-based biopesticides are a type of pest control technology that utilizes the natural biological process of RNA interference to target and control specific pests. RNA interference is a mechanism that regulates gene expression by inhibiting the translation of messenger RNA (mRNA) into proteins. In the context of biopesticides, RNAi is harnessed to interfere with essential genes in the pests, disrupting their biological processes and ultimately leading to their control.

Researchers design RNA molecules complementary to target genes, typically short interfering RNAs (siRNAs) or microRNAs (miRNAs). The designed RNA molecules are incorporated into the biopesticide formulation. The biopesticide can be applied to the target crops or areas where pests are present. Methods of delivery may include spraying, coating, or other application techniques.

Pests, such as insects or plant pathogens, come into contact with or ingest the biopesticide. Once inside the pest's cells, the RNA molecules bind to the complementary target mRNA, triggering the degradation or inhibition of that mRNA. As a result, the expression of the target gene is suppressed, disrupting the normal biological functions of the pest. The interference with essential genes in the pests can lead to a variety of effects, such as developmental abnormalities, reduced reproductive capabilities, or even death.

This approach offers targeted pest management with potential environmental benefits.

Challenges include delivery methods and ensuring specificity without harming non-target organisms. Ongoing research aims to enhance the efficacy of RNAi biopesticides.

This report studies the global RNA Interference-based Biopesticides production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for RNA Interference-based Biopesticides, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of RNA Interference-based Biopesticides that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global RNA Interference-based Biopesticides total production and demand, 2018-2029, (Tons)

Global RNA Interference-based Biopesticides total production value, 2018-2029, (USD Million)

Global RNA Interference-based Biopesticides production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global RNA Interference-based Biopesticides consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: RNA Interference-based Biopesticides domestic production, consumption, key domestic manufacturers and share

Global RNA Interference-based Biopesticides production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global RNA Interference-based Biopesticides production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global RNA Interference-based Biopesticides production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global RNA Interference-based Biopesticides market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bayer, Syngenta, BASF, Corteva, Greenlight Biosciences, RNAissance Ag, Pebble Labs, Renaissance BioScience and AgroSpheres, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World RNA Interference-based Biopesticides market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global RNA Interference-based Biopesticides Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global RNA Interference-based Biopesticides Market, Segmentation by Type

Plant-Incorporated Protectant (PIP)

Non-PIP (Non-Plant-Incorporated Protectant)

## Global RNA Interference-based Biopesticides Market, Segmentation by Application

Farmland

Orchard

Others

## Companies Profiled:

Bayer

Syngenta

BASF

Corteva

Greenlight Biosciences

RNAissance Ag

Pebble Labs

Renaissance BioScience

AgroSpheres

## Key Questions Answered

1. How big is the global RNA Interference-based Biopesticides market?
2. What is the demand of the global RNA Interference-based Biopesticides market?
3. What is the year over year growth of the global RNA Interference-based Biopesticides market?
4. What is the production and production value of the global RNA Interference-based Biopesticides market?
5. Who are the key producers in the global RNA Interference-based Biopesticides market?

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