

# **Biorational Pesticides Market Size, Share & Growth Report, H2-2026: Industry Outlook By Type, By Product, By Crop Type, By Mode of Application, Companies and Countries to 2032**

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## **Abstracts**

The global Biorational Pesticides Market is estimated to generate \$7.4 Billion in 2026. Further, between 2026 and 2032, the market size is forecast to grow at a CAGR of 11.4% to reach \$14.1 Billion in 2032. This Biorational Pesticides report provides a comprehensive analysis across By Type (Microbials, Botanicals, Biochemicals, Semiochemicals), By Product (Bioinsecticides, Biofungicides, Bionematicides, Bioherbicides), By Crop Type (Fruits and Vegetables, Cereals and Grains, Oilseeds and Pulses, Turf and Ornamentals), By Mode of Application (Foliar Spray, Seed Treatment, Soil Treatment), across 5 geographic regions, and 22 countries.

## **Residue Management, Resistance Pressure, and Integrated Crop Protection Demand**

The biorational pesticides industry covers microbial, botanical, biochemical, pheromone-based, and naturally derived crop-protection products designed to control insects, diseases, nematodes, and other agricultural threats with comparatively targeted modes of action. Demand is being reinforced by resistance to conventional active ingredients, tighter residue requirements, pollinator considerations, organic production, and the need to preserve efficacy within integrated pest-management programs. Growers increasingly use biological insecticides, biofungicides, pheromones, and natural-source nematicides alongside synthetic chemistry rather than as complete substitutes. Adoption is strongest where crop value, export specifications, resistance management, and frequent application schedules justify differentiated treatment programs. Product performance consistency, shelf life, compatibility with existing spray systems, regulatory registration,

and agronomic validation remain central commercial requirements, particularly as biological solutions expand from protected horticulture into broad-acre crops and large-scale commercial farming.

### **Botanical Biofungicides, Pheromone Platforms, and Biological Portfolio Expansion**

Manufacturers are accelerating market development through acquisitions, discovery partnerships, and wider geographic registration. Syngenta expanded its agreement with Botanical Solution Inc. to commercialize Quillibrium, a botanical biofungicide derived from *Quillaja saponaria* through a proprietary plant-tissue culture platform, across additional markets in the Americas. The company is also collaborating with Lavie Bio to identify and optimize microbial bio-insecticide candidates using computational discovery capabilities and Syngenta's development network. BASF completed its acquisition of AgBiTech, adding established nucleopolyhedrovirus-based biological insect-control technologies and a platform intended for broader international scaling. Bayer expanded its partnership with M2i Group for pheromone gel distribution and agreed to commercialize Velsinum, an Ecospray-developed garlic-sourced liquid nematicide for vegetable and potato production across selected markets.

### **Precision Biologicals, Fermentation Capacity, and Integrated Pest Programs**

Manufacturer-led trends center on integrating biological pesticides into complete crop programs supported by digital decision tools, resistance-management protocols, and conventional chemistry. Microbial fermentation capacity is expanding as suppliers seek greater production consistency and commercial scale for biofungicides, seed treatments, and naturally derived active ingredients. BASF has invested in a dedicated fermentation facility for biological and biotechnology-based crop-protection products, including biological fungicides and seed treatments. Partnerships increasingly combine specialist discovery platforms with multinational field-testing, registration, and distribution capabilities, reducing the time required to move natural molecules from screening into grower programs. Pheromone delivery, botanical extracts, microbial insecticides, and crop-specific biological seed treatments are receiving greater portfolio visibility. Digital agronomy platforms are also being refined to improve treatment timing and product selection, allowing biorational inputs to be positioned as precise components within data-supported integrated pest-management systems.

### **Shifting Consumer Expectations and Industry Transformation**

Young and adult consumers across markets are increasingly scrutinizing products beyond price and brand, seeking greater visibility into ingredients or materials, their origin, manufacturing location, quality, sourcing practices, and environmental attributes. This is increasing the importance of ingredient lists, nutrition labeling, allergen declarations, certifications, sourcing information and other product claims, while also raising the bar for transparency and substantiation.

In addition, the industry is being reshaped by advances in AI, ingredient and formulation technologies, automation, digital commerce, packaging technology and data analytics, creating new opportunities to accelerate product development, improve product quality and optimize operations. However, these capabilities require higher capital commitments, particularly as companies invest in store expansion and refurbishment, automation, AI-enabled systems, digital infrastructure and other productivity-enhancing technologies.

Competitive dynamics are also shifting as private-label and disruptor brands raise value expectations across selected price points, pushing established players to sharpen their entry, core and premium propositions. Private-label expansion, adjacent-category opportunities, M&A and AI are consequently creating new avenues for growth for manufacturers, suppliers and other industry participants across both developed and developing markets.

### **Impact of Tariffs and Inflation Rates on Biorational Pesticides Markets and Companies**

Tariffs and elevated inflation are directly reshaping the cost structure and pricing strategies of Food & Beverages and Consumer Goods companies. The impact is particularly visible in imported ingredients and raw materials, packaging materials, energy, transportation, and other internationally sourced inputs, while higher consumer prices are increasing pressure on household purchasing decisions. The IMF WEO Data 2026 projects global headline inflation at 4.7% in 2026, while the continued use of tariffs and other trade measures is increasing uncertainty around sourcing and cross-border costs.

The report quantifies the impact of tariff changes and inflation on the market by analyzing country-level inflation trends, tariff exposure, import dependence, input-cost movements and pricing conditions, and assesses their implications for market volumes, revenues and margins.

## **Key Value-Creating Activities and Participants Across the Biorational Pesticides Industry Value Chain**

Biorational Pesticides value chains are becoming more cost-sensitive and closely integrated, with changes in input prices, sourcing concentration, production efficiency, packaging costs, logistics and channel economics directly influencing margins and competitive positioning at each stage.

The report maps the value chain from upstream suppliers to end-use channels, identifies the principal participants and value-adding activities at each stage, and assesses the relative importance of procurement, manufacturing, packaging, logistics, distribution and retail in the forecast period.

## **Biorational Pesticides Pricing analysis- How Input Costs, Competition and Positioning Influence Biorational Pesticides Market Pricing**

Pricing analysis in the report establishes how prices differ across products, segments, countries and channels and what is driving those differences. The report provides historical and current price benchmarks, country-level and regional comparisons, product-level pricing, and an assessment of the principal factors influencing price movements.

## **Five forces analysis- How Competitive Forces Are Shaping the Biorational Pesticides Industry**

The chapter in the Biorational Pesticides report evaluates competitive rivalry, threat of new entrants, bargaining power of suppliers, bargaining power of buyers, and threat of substitutes, with each force assessed against the market's actual operating conditions. It analyzes market factors including fragmentation, product differentiation, manufacturing and distribution requirements, switching costs, supplier concentration, raw-material availability, retailer purchasing power, and the ability of consumers to substitute between brands. The report also examines how e-commerce and marketplaces are lowering certain barriers to market access while intensifying price transparency, and how established distribution networks, brand recognition, scale and customer relationships continue to protect incumbents across categories.

## **Critical Success Factors- Key Factors Determining Competitive Success in the Biorational Pesticides Industry**

The report identifies the critical success factors that fuel growth in the Biorational Pesticides market, in addition to market trends and company capabilities. The Biorational Pesticides report evaluates critical success factors against the market's competitive environment and assesses how leading participants are strengthening them. Further, the chapter identifies the factors with strongest influence on market-share retention, customer loyalty, pricing power, operating performance, and long-term competitive differentiation.

### **Segmentation analysis- How Demand Is Distributed Across Key Segments of the Biorational Pesticides Market**

The report analyzes the global and regional markets across key types, applications, and other segments from 2021 to 2025. Further, forecasts are provided from 2026 to 2032. Key segments included in the study are By Type (Microbials, Botanicals, Biochemicals, Semiochemicals), By Product (Bioinsecticides, Biofungicides, Bionematicides, Bioherbicides), By Crop Type (Fruits and Vegetables, Cereals and Grains, Oilseeds and Pulses, Turf and Ornamentals), By Mode of Application (Foliar Spray, Seed Treatment, Soil Treatment).

### **US Biorational Pesticides Market - Strong Consumer Spending, Private-Label Expansion and Premium Product Demand**

The US Biorational Pesticides companies are focusing on value positioning, distribution strength, product differentiation, and operating efficiency as private-label products gain ground against national brands. The US store-brand sales reached \$282.8 billion in 2025, growing 3.3% versus 1.2% for national brands, while store brands reached a record 21.3% dollar share and 23.5% unit share according to the Private Label Manufacturers Association. The report provides the US Biorational Pesticides market size outlook from 2021 to 2032 and the key factors shaping the market along with key strategies adopted by leading companies.

### **Canada Biorational Pesticides Market - Affordability, Retail Concentration and Supply-Chain Resilience Shape Market Growth**

Over the past two years, Canadian companies have been focusing on value, supply-chain resilience and manufacturing efficiency to overcome trade and cost pressures. Retail demand also remained firm, with food and beverage retail sales increasing 4.4% year-on-year in December 2025, led by packaged dry foods, fresh meat and poultry, and snacks, according to Statistics Canada. The report identifies competitive pricing

and product value, retailer access, diversified sourcing, productivity, brand positioning, and portfolio innovation as key success factors across the Canadian Biorational Pesticides value chain.

### **Mexico Biorational Pesticides Market- Rising Consumption, Manufacturing Expansion and Export Integration Drive Market Development**

Mexico's Biorational Pesticides market is supported by a large domestic consumer base, established manufacturing capabilities, and strong export integration, while pricing remains an important consideration for consumers and manufacturers. The INEGI reported that the consumer prices for food, beverages and tobacco increased 5.13% year-on-year in May 2026, compared with 3.94% for overall consumer prices, keeping affordability and price management central to category performance. Leading companies are focusing on domestic manufacturing scale, ingredient availability, export competitiveness, product differentiation, efficient sourcing and supply-chain execution to gain profit margins.

### **Germany Biorational Pesticides Market- Private-Label Strength, Price Sensitivity and Manufacturing Efficiency Shape Competition**

Value-for-money, private-label competitiveness, efficient sourcing, and cost control are central to market performance and continue to shape the market outlook. German food prices remained structurally above their pre-inflation baseline: the food and non-alcoholic beverages CPI reached 136.2 in 2025 (2020=100), compared with 121.9 for the overall CPI, although annual food inflation moderated to 2.0% in 2025. The market is also being influenced by Germany's policy push toward healthier eating and greater development of alternative protein products, creating additional opportunities for reformulation and product innovation.

### **France Biorational Pesticides Market- Premium Food Culture, Retail Transformation and Selective Consumer Spending Drive Demand**

France's Biorational Pesticides market is being shaped by moderating food inflation, cautious household consumption and a shift in retail demand toward value and specialized formats. Household final consumption expenditure increased only 0.4% in volume in 2025, while household purchasing power declined 0.4%, keeping affordability and price-value positioning important despite the easing of inflation. Biorational Pesticides companies operating in France are balancing value-oriented pricing with quality and differentiation, strengthening supermarket and alternative-format distribution,

managing procurement and supply-chain costs, and responding to increasingly selective household spending.

### **UK Biorational Pesticides Market- Import Dependence, Retail Concentration and Product Portfolio Expansion Influence Market Growth**

The UK Biorational Pesticides market is strongly influenced by import dependence, household affordability, and retail concentration. Consumer expenditure on food and alcoholic drinks reached ?303.3 billion in real terms in 2025, up 1.1%, with spending on food and drink eaten outside the home increasing 2.3% to ?137.7 billion, while household food expenditure was broadly flat. The structure of the industry also favors companies able to operate efficiently at scale: approximately 98.8% of UK food and drink manufacturing businesses are SMEs, creating a large and fragmented supplier base alongside major manufacturers and retailers. Over the forecast period, competitive pricing, procurement efficiency, product differentiation, retailer and foodservice relationships, import management and the ability to respond remain key success factors.

### **Spain Biorational Pesticides Market- Household Consumption, Tourism and Export-Oriented Manufacturing Support Demand**

Spain's Biorational Pesticides market is supported by strong household food expenditure, a large tourism-driven consumption base and a highly export-oriented food industry, although consumers remain sensitive to price increases. Tourism provides an additional demand channel: international tourists spent €11.7 billion in Spain in April 2026 alone, up 7.4% year-on-year, including €1.99 billion on food and drinks, up 6.8%. Spain's food industry also reached a record level of exports in 2025, reinforcing its importance as an export manufacturing base and exposing producers to international trade conditions and supply-chain developments.

### **Italy Biorational Pesticides Market- Product Quality, Heritage and Export Competitiveness Remain Key Market Drivers**

Italy's consumption structure favors companies capable of maintaining value across differentiated price points: household consumption expenditure averaged €2,738 per month in 2023, up 4.3% from 2022, although the increase reflected both higher spending and price effects. Italy's large manufacturing and export base supports demand for products with strong quality, provenance, and differentiation, particularly where Italian origin provides a competitive advantage. Companies that can combine

Italy's established food-manufacturing capabilities with tighter cost control and differentiated products are better positioned to navigate slower domestic consumption and renewed price pressure.

### **China Biorational Pesticides Market- Digital Commerce, Brand Trust and Selective Consumer Spending Reshape Demand**

China's Biorational Pesticides markets are being shaped by large-scale domestic consumption, rapid online retail expansion, increasingly selective spending and a widening performance gap between categories. Total retail sales of consumer goods reached RMB 50.1 trillion in 2025, up 3.7%, significantly outperforming beverages at 1.0%. Online retail is particularly important: physical-goods online sales reached RMB 13.1 trillion, representing 26.1% of total consumer-goods retail sales, while online sales of food increased 14.5% according to the National Bureau of Statistics of China. Established brands retain an advantage where consumers prioritize familiarity and brand authority, while the rapid expansion of online food sales creates opportunities for digitally native brands and manufacturers capable of using data, AI, and platform ecosystems.

### **India Biorational Pesticides Market- Rising Consumption, Increasing Investment and Expanding Distribution Create Growth Opportunities**

India's Biorational Pesticides market is being supported by rising household consumption, a large and increasingly diversified consumer base, expansion of food processing and continued investment in formal food manufacturing. India's rural monthly per-capita consumption expenditure reached ₹4,122 in 2023–24, up from ₹3,773 in 2022–23, while urban MPCE increased to ₹6,996, highlighting the continued expansion of household purchasing capacity across both rural and urban markets. The supply side is also becoming more organized and processing-intensive. Digital commerce and AI-enabled consumer engagement are also becoming increasingly relevant, particularly as Indian consumers adopt digital tools across product discovery and purchasing.

### **Japan Biorational Pesticides Market- Aging Consumers, Household Price Sensitivity and Digital Purchasing Reshape the Market**

Japan's Biorational Pesticides markets are being shaped by high food expenditure, renewed price pressure and increasingly cautious real household consumption, alongside a structurally mature consumer base. Price pressure has also remained visible in 2026, with Japan's headline CPI increasing 1.5% year-on-year in May 2026,

while core inflation excluding fresh food increased 1.4%. Meanwhile, online purchasing remains an important route to consumers: 55.3% of two-or-more-person households used online shopping in May 2026, with food contributing materially to the increase in online-shopping expenditure. Companies also need to manage smaller household sizes and differing consumption patterns by age, while maintaining strong product differentiation in a mature market where incremental volume growth is more difficult to achieve.

### **Brazil Biorational Pesticides Market- Strong Domestic Consumption and Export-Oriented Manufacturing Drive Growth**

Brazil's Biorational Pesticides market is supported by a large domestic consumption base, a highly integrated agricultural and food-processing sector, and exceptional export competitiveness, while renewed food-price pressure is keeping affordability important. The country's food and beverage industry generated R\$1.388 trillion in revenue in 2025, equivalent to 10.9% of national GDP, with domestic sales reaching R\$1.02 trillion; retail accounted for R\$732 billion and foodservice R\$287.9 billion. Real industry sales increased 2.2%, while companies invested R\$41.3 billion, up 6.8%, including R\$26.7 billion in innovation, plant modernization and new technologies.

### **Middle East Africa Biorational Pesticides Market- Import Dependence and Value-Added Products Gaining Steady Demand Growth**

The Middle East Biorational Pesticides markets are being shaped by high dependence on food imports, food-security investment, urbanization, tourism, premium retail and increasingly selective consumer spending, with conditions differing substantially between Gulf markets and the wider region. The GCC recorded overall inflation of only 1.8% in 2025, while food and beverage prices increased 1.2%, indicating relatively contained consumer-price pressure compared with many global markets. Across the region, this combination of import exposure and localization is increasing the importance of supplier diversification, local production, inventory management, and efficient logistics, while strong tourism, hospitality, and modern retail ecosystems are supporting demand for differentiated, convenience-oriented, and premium products.

### **Biorational Pesticides Competitive Landscape**

The Biorational Pesticides competitive landscape is becoming more fragmented as established multinational brands compete simultaneously with private-label products, regional manufacturers, digitally native brands and category-focused disruptors.

Competitive advantage is increasingly determined by the ability to balance price, product quality, innovation, distribution reach and speed of response rather than by brand scale alone. The report provides detailed analysis of leading companies including business profile, SWOT analysis, products and services, and financial profiles of Valent BioSciences LLC, Bayer AG, Syngenta AG, BASF SE, Corteva Agriscience, Certis Biologicals, Bioceres Crop Solutions Corp., UPL Limited, Koppert B.V., Isagro S.p.A..

## **Biorational Pesticides Market Segmentation**

### **By Type**

Microbials

Botanicals

Biochemicals

Semiochemicals

### **By Product**

Bioinsecticides

Biofungicides

Bionematicides

Bioherbicides

### **By Crop Type**

Fruits and Vegetables

Cereals and Grains

Oilseeds and Pulses

Turf and Ornamentals

## By Mode of Application

Foliar Spray

Seed Treatment

Soil Treatment

## Geographical Coverage

North America (US, Canada, Mexico)

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

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

Latin America (Brazil, Argentina, Rest of South and Central America)

Middle East and Africa (Saudi Arabia, UAE, MENA, South Africa, Sub-Saharan Africa)

## Leading Companies in Biorational Pesticides Industry

Valent BioSciences LLC

Bayer AG

Syngenta AG

BASF SE

Corteva Agriscience

Certis Biologicals

Bioceres Crop Solutions Corp.

UPL Limited

Koppert B.V.

Isagro S.p.A.

## Frequently Asked Questions

### 1. What is the current size of the Biorational Pesticides market?

The Biorational Pesticides market is estimated at US\$7.4 Billion in 2026, based on the report's market sizing methodology. Demand is supported by new product launches, while competition from local labels is influencing near-term market performance. The market is expected to reach US\$14.1 Billion by 2032, reflecting the investment expansion of leading companies.

### 2. How fast is the Biorational Pesticides market expected to grow through the forecast period?

The Biorational Pesticides market is projected to expand at a 11.4% CAGR between 2026 and 2032, with growth concentrated in Asia Pacific.

### 3. Which segment currently accounts for the largest share of the Biorational Pesticides market?

The report analyzes the report across By Type (Microbials, Botanicals, Biochemicals, Semiochemicals), By Product (Bioinsecticides, Biofungicides, Bionematicides, Bioherbicides), By Crop Type (Fruits and Vegetables, Cereals and Grains, Oilseeds and Pulses, Turf and Ornamentals), By Mode of Application (Foliar Spray, Seed Treatment, Soil Treatment).

### 4. Which regions are generating the largest demand for Biorational Pesticides products?

Differences in consumer preferences, pricing, regulation and distribution infrastructure continue to create significant variations in market performance across regions. Asia Pacific is the fastest growing market driven by China, India, Southeast Asia, and other emerging markets.

## **5. Which companies are leading the Biorational Pesticides market?**

The Biorational Pesticides market includes major participants such as Valent BioSciences LLC, Bayer AG, Syngenta AG, BASF SE, Corteva Agriscience, Certis Biologicals, Bioceres Crop Solutions Corp., UPL Limited, Koppert B.V., Isagro S.p.A.. Leading companies compete through product portfolio, distribution, technology, while recent competitive activity includes M&A, product launches, capacity expansion, and geographic expansion. Market leadership varies significantly by product category and geography.

## Contents

### CHAPTER 1- EXECUTIVE SUMMARY

- 1.1. Market Snapshot: Market Size, CAGR, and Growth Outlook to 2032
- 1.2. Key Industry Highlights, 2026
- 1.3. Premium Market Insights
  - 1.3.1. Potential Biorational Pesticides Market Types and Applications
  - 1.3.2. Fastest Growing Countries Over the forecast period
- 1.4. Market Scope and Segmentation
  - 1.4.1. Key Market Segments
  - 1.4.2. Key Countries and Regions
  - 1.4.3. Top Companies in the Biorational Pesticides Industry
- 1.5. Macroeconomic and Demographic Outlook
  - 1.5.1. GDP Outlook by Top 20 Countries, 2010-2030
  - 1.5.2. Population Forecast by Country, 2010-2030
  - 1.5.3. Inflation Trends in Leading Countries
- 1.6. Impact of Trade Policies, Regulations, and Sustainability
  - 1.6.1. Trade tariffs and localization requirements
  - 1.6.2. ESG and sustainability pressures
  - 1.6.3. Compliance-driven structural changes in the value chain

### CHAPTER 2- RESEARCH METHODOLOGY

- 2.1. Report Coverage
- 2.2. Secondary Research
- 2.3. Primary Research
- 2.4. Data Triangulation
- 2.5. Market Modeling and Forecasting

### CHAPTER 3- GLOBAL BIORATIONAL PESTICIDES MARKET TRENDS, GROWTH DRIVERS, CHALLENGES, AND OPPORTUNITIES THROUGH 2032

- 3.1. An Introduction to Global Biorational Pesticides Markets in 2026
- 3.2. Global Historic and Forecast Biorational Pesticides Market Size Outlook, USD Million, 2021-2032
- 3.3. Annual Market Size Growth Rate (Y-o-Y), %, 2021-2032
- 3.4. Market Dynamics
  - 3.4.1. Key Biorational Pesticides Market Driving Forces and Their Impact on Market

## Outlook

- 3.4.2. Short and Long-Term Trends and Insights Shaping the Future
- 3.4.3. Potential Biorational Pesticides Market Opportunities for Industry Stakeholders
- 3.4.4. Potential Challenges across Biorational Pesticides Value Chain

## **CHAPTER 4- BIORATIONAL PESTICIDES MARKET COMPETITIVE LANDSCAPE, STRATEGIC ANALYSIS, AND VALUE CHAIN ASSESSMENT**

- 4.1. Porter's Five Forces Analysis
  - 4.1.1. Bargaining Power of Buyers
  - 4.1.2. Bargaining Power of Suppliers
  - 4.1.3. Threat of Substitutes
  - 4.1.4. Threat of New Entrants
  - 4.1.5. Intensity of Competitive Rivalry
  - 4.1.6. Market Attractiveness Analysis by Segment
  - 4.1.7. Market Attractiveness Analysis by Country
- 4.2. Competitive Landscape
  - 4.2.1 Product Analysis of Leading Biorational Pesticides Companies
  - 4.2.2 Recent Strategic Developments
  - 4.2.3 Mergers, Acquisitions, and Partnerships
  - 4.2.4 Key Success Factors
- 4.3. Value Chain Analysis
  - 4.3.1. Key Value Chain Segments
  - 4.3.2. Dominant players by value-chain stage
- 4.4. SWOT Analysis
  - 4.4.1. Key Strengths and Opportunities
  - 4.4.2. Major Weaknesses and Threats
- 4.5 Technology Roadmap

## **CHAPTER 5- BIORATIONAL PESTICIDES MARKET OUTLOOK BY SEGMENTS**

- 5.1. Market Size Outlook by Type, USD Million, 2021- 2025 and 2026-2032
  - 5.2. Market Size Outlook by Application, USD Million, 2021- 2025 and 2026-2032
  - 5.3. Market Size Outlook by Country, USD Million, 2021- 2025 and 2026-2032
- By Type
- Microbials
  - Botanicals
  - Biochemicals
  - Semiochemicals

By Product

Bioinsecticides

Biofungicides

Bionematicides

Bioherbicides

By Crop Type

Fruits and Vegetables

Cereals and Grains

Oilseeds and Pulses

Turf and Ornamentals

By Mode of Application

Foliar Spray

Seed Treatment

Soil Treatment

## **CHAPTER 6- SCENARIO ANALYSIS AND OUTLOOK**

### **6.1. Base Case Scenario**

6.1.1. Definitions and Insights

6.1.2. Market Size Outlook to 2032

### **6.2. Low Growth Case Scenario**

6.2.1. Definitions and Insights

6.2.2. Market Size Outlook to 2032

### **6.3. High Growth Case Scenario**

6.3.1. Definitions and Insights

6.3.2. Market Size Outlook to 2032

## **CHAPTER 7- NORTH AMERICA BIORATIONAL PESTICIDES MARKET SIZE ANALYSIS AND OUTLOOK**

### **7.1. North America Biorational Pesticides Market Overview**

### **7.2. Leading Companies Operating in North America**

### **7.3. Key Industry Statistics, 2026**

### **7.4. North America Biorational Pesticides Market Trends and Growth Opportunities to 2032**

### **7.5. North America Biorational Pesticides Market Size Outlook by Type**

### **7.6. North America Biorational Pesticides Market Size Outlook by Application**

### **7.7. North America Biorational Pesticides Market Size Outlook by Country**

### **7.8. United States**

- 7.8.1. Key Statistics
- 7.8.2. The US Biorational Pesticides Market Size Outlook, 2021- 2032
- 7.8.3. Key Market Drivers and Industry Developments in the US Biorational Pesticides Companies
- 7.9. Canada
  - 7.9.1. Key Statistics
  - 7.9.2. Canada Biorational Pesticides Market Size Outlook, 2021- 2032
  - 7.9.3. Key Market Drivers and Industry Developments in Canada Biorational Pesticides Companies
- 7.10. Mexico
  - 7.10.1. Key Statistics
  - 7.10.2. Mexico Biorational Pesticides Market Size Outlook, 2021- 2032
  - 7.10.3. Key Market Drivers and Industry Developments in Mexico Biorational Pesticides Companies

## **CHAPTER 8- EUROPE BIORATIONAL PESTICIDES MARKET SIZE ANALYSIS AND OUTLOOK**

- 8.1. Europe Biorational Pesticides Market Overview
- 8.2. Leading Companies Operating in Europe
- 8.3. Key Industry Statistics, 2026
- 8.4. Europe Biorational Pesticides Market Trends and Growth Opportunities to
- 8.5. Europe Biorational Pesticides Market Size Outlook by Type
- 8.6. Europe Biorational Pesticides Market Size Outlook by Application
- 8.7. Europe Biorational Pesticides Market Size Outlook by Country
- 8.8. Germany
  - 8.8.1. Key Statistics
  - 8.8.2. Germany Biorational Pesticides Market Size Outlook, 2021- 2032
  - 8.8.3. Key Market Drivers and Industry Developments in Germany Biorational Pesticides Companies
- 8.9. France
  - 8.9.1. Key Statistics
  - 8.9.2. France Biorational Pesticides Market Size Outlook, 2021- 2032
  - 8.9.3. Key Market Drivers and Industry Developments in France Biorational Pesticides Companies
- 8.10. United Kingdom
  - 8.10.1. Key Statistics
  - 8.10.2. United Kingdom Biorational Pesticides Market Size Outlook, 2021- 2032
  - 8.10.3. Key Market Drivers and Industry Developments in the UK Biorational

## Pesticides Companies

### 8.11. Spain

#### 8.11.1. Key Statistics

#### 8.11.2. Spain Biorational Pesticides Market Size Outlook, 2021- 2032

#### 8.11.3. Key Market Drivers and Industry Developments in Spain Biorational Pesticides Companies

### 8.12. Italy

#### 8.12.1. Key Statistics

#### 8.12.2. Italy Biorational Pesticides Market Size Outlook, 2021- 2032

#### 8.12.3. Key Market Drivers and Industry Developments in Italy Biorational Pesticides Companies

### 8.13. Rest of Europe

#### 8.13.1. Key Statistics

#### 8.13.2. Rest of Europe Biorational Pesticides Market Size Outlook, 2021- 2032

#### 8.13.3. Key Market Drivers and Industry Developments in Rest of Europe Biorational Pesticides Companies

## **CHAPTER 9- ASIA PACIFIC BIORATIONAL PESTICIDES MARKET SIZE ANALYSIS AND OUTLOOK**

### 9.1. Asia Pacific Biorational Pesticides Market Overview

### 9.2. Leading Companies Operating in Asia Pacific

### 9.3. Key Industry Statistics, 2026

### 9.4. Asia Pacific Biorational Pesticides Market Trends and Growth Opportunities to

### 9.5. Asia Pacific Biorational Pesticides Market Size Outlook by Type

### 9.6. Asia Pacific Biorational Pesticides Market Size Outlook by Application

### 9.7. Asia Pacific Biorational Pesticides Market Size Outlook by Country

### 9.8. China

#### 9.8.1. Key Statistics

#### 9.8.2. China Biorational Pesticides Market Size Outlook, 2021- 2032

#### 9.8.3. Key Market Drivers and Industry Developments in China Biorational Pesticides Companies

### 9.9. Japan

#### 9.9.1. Key Statistics

#### 9.9.2. Japan Biorational Pesticides Market Size Outlook, 2021- 2032

#### 9.9.3. Key Market Drivers and Industry Developments in Japan Biorational Pesticides Companies

### 9.10. India

#### 9.10.1. Key Statistics

- 9.10.2. India Biorational Pesticides Market Size Outlook, 2021- 2032
- 9.10.3. Key Market Drivers and Industry Developments in India Biorational Pesticides Companies
- 9.11. South Korea
  - 9.11.1. Key Statistics
  - 9.11.2. South Korea Biorational Pesticides Market Size Outlook, 2021- 2032
  - 9.11.3. Key Market Drivers and Industry Developments in South Korea Biorational Pesticides Companies
- 9.12. Australia
  - 9.12.1. Key Statistics
  - 9.12.2. Australia Biorational Pesticides Market Size Outlook, 2021- 2032
  - 9.12.3. Key Market Drivers and Industry Developments in Australia Biorational Pesticides Companies
- 9.13. Southeast Asia
  - 9.13.1. Key Statistics
  - 9.13.2. Southeast Asia Biorational Pesticides Market Size Outlook, 2021- 2032
  - 9.13.3. Key Market Drivers and Industry Developments in Southeast Asia Biorational Pesticides Companies

## **CHAPTER 10- SOUTH AND CENTRAL AMERICA BIORATIONAL PESTICIDES MARKET SIZE ANALYSIS AND OUTLOOK**

- 10.1. South and Central America Biorational Pesticides Market Overview
- 10.2. Leading Companies Operating in South and Central America
- 10.3. Key Industry Statistics, 2026
- 10.4. South and Central America Biorational Pesticides Market Trends and Growth Opportunities to
- 10.5. South and Central America Biorational Pesticides Market Size Outlook by Type
- 10.6. South and Central America Biorational Pesticides Market Size Outlook by Application
- 10.7. South and Central America Biorational Pesticides Market Size Outlook by Country
- 10.8. Brazil
  - 10.8.1. Key Statistics
  - 10.8.2. Brazil Biorational Pesticides Market Size Outlook, 2021- 2032
  - 10.8.3. Key Market Drivers and Industry Developments in Brazil Biorational Pesticides Companies
- 10.9. Argentina
  - 10.9.1. Key Statistics
  - 10.9.2. Argentina Biorational Pesticides Market Size Outlook, 2021- 2032

- 10.9.3. Key Market Drivers and Industry Developments in Argentina Biorational Pesticides Companies
- 10.10. Rest of Latin America
  - 10.10.1. Key Statistics
  - 10.10.2. Rest of Latin America Biorational Pesticides Market Size Outlook, 2021- 2032
  - 10.10.3. Key Market Drivers and Industry Developments in Rest of Latin America Biorational Pesticides Companies

## **CHAPTER 11- MIDDLE EAST AND AFRICA BIORATIONAL PESTICIDES MARKET SIZE ANALYSIS AND OUTLOOK**

- 11.1. Middle East and Africa Biorational Pesticides Market Overview
- 11.2. Leading Companies Operating in Middle East and Africa
- 11.3. Key Industry Statistics, 2026
- 11.4. Middle East and Africa Biorational Pesticides Market Trends and Growth Opportunities to
- 11.5. Middle East and Africa Biorational Pesticides Market Size Outlook by Type
- 11.6. Middle East and Africa Biorational Pesticides Market Size Outlook by Application
- 11.7. Middle East and Africa Biorational Pesticides Market Size Outlook by Country
- 11.8. Saudi Arabia
  - 11.8.1. Key Statistics
  - 11.8.2. Saudi Arabia Biorational Pesticides Market Size Outlook, 2021- 2032
  - 11.8.3. Key Market Drivers and Industry Developments in Saudi Arabia Biorational Pesticides Companies
- 11.9. United Arab Emirates
  - 11.9.1. Key Statistics
  - 11.9.2. The UAE Biorational Pesticides Market Size Outlook, 2021- 2032
  - 11.9.3. Key Market Drivers and Industry Developments in the UAE Biorational Pesticides Companies
- 11.10. Africa
  - 11.10.1. Key Statistics
  - 11.10.2. Africa Biorational Pesticides Market Size Outlook, 2021- 2032
  - 11.10.3. Key Market Drivers and Industry Developments in Africa Biorational Pesticides Companies

## **CHAPTER 12- COMPANY PROFILES**

- 12.1. Top Companies in Biorational Pesticides Industry
  - Valent BioSciences LLC

Bayer AG  
Syngenta AG  
BASF SE  
Corteva Agriscience  
Certis Biologicals  
Bioceres Crop Solutions Corp.  
UPL Limited  
Koppert B.V.  
Isagro S.p.A.  
12.2. Business Description  
12.3. SWOT Profiles  
12.4. Products and Services

## **CHAPTER 13- APPENDIX**

Glossary of Terms  
Research Methodology & Data Sources  
Conclusion & Strategic Recommendations

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