

Plant Biotechnology Market Size, Share & Growth Report, H2-2026: Industry Outlook By Technology Type, By Product Category, By Crop Type, By Trait, By End User, Companies and Countries to 2032

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Abstracts

The global Plant Biotechnology Market size is forecast to grow at a CAGR of 10.66% between 2026 and 2032. This Plant Biotechnology report provides a comprehensive analysis across By Technology Type (Genetic Engineering, Marker-Assisted Breeding (MAB), Genome Editing, Plant Tissue Culture, Synthetic Biology, RNA Interference (RNAi)), By Product Category (Biotech Seeds and Traits, Crop Protection and Plant Nutrition Solutions, Synthetic Biology Enabled Products), By Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, Cash), By Trait (Yield Improvement and Growth Enhancement, Herbicide Tolerance, Insect and Pest Resistance, Climate and Abiotic Stress Tolerance, Biofortification and Nutritional Enhancement), By End User (Agricultural Sector and Farmers, Food and Feed Processing Companies, Pharmaceuticals and Industrial Bio-Products), across 5 geographic regions, and 22 countries.

Growing Demand for Advanced Crop Improvement and Sustainable Agricultural Solutions

The global plant biotechnology industry is experiencing sustained growth as agricultural producers, food manufacturers, and research institutions increasingly adopt biotechnology to improve crop productivity, resilience, and nutritional quality. Plant biotechnology is widely applied in crop breeding, genetic engineering, gene editing, molecular diagnostics, tissue culture, and seed development to address challenges related to climate change, pests, diseases, and resource efficiency. Rising demand for sustainable agriculture, food security, and high-yield crop varieties is encouraging

biotechnology companies to expand innovation across multiple crop segments. Increasing emphasis on precision agriculture and environmentally responsible farming practices is further supporting the adoption of advanced plant biotechnology solutions worldwide.

Biotechnology Innovation and Advanced Crop Development

Companies are investing in genome editing, molecular breeding, bioinformatics, and precision breeding technologies to accelerate crop improvement and enhance agricultural productivity. Bayer Crop Science continues expanding its biotechnology portfolio through advanced seed technologies, trait development, and digital agriculture solutions that improve crop performance and resilience. Corteva Agriscience is strengthening its research capabilities by developing biotechnology-driven crop traits and gene-editing technologies designed to improve yield potential and stress tolerance. Meanwhile, Syngenta continues advancing plant biotechnology through integrated breeding programs, molecular innovation, and crop protection research that supports sustainable agricultural production. Companies are also optimizing tissue culture techniques, genomic analysis, and breeding platforms to shorten product development cycles.

Increasing Focus on Gene Editing, Climate Resilience, and Sustainable Agriculture

Industry participants are increasingly developing drought-tolerant, disease-resistant, herbicide-tolerant, and nutrient-enhanced crop varieties that address evolving agricultural and environmental challenges. Product pipelines are expanding with CRISPR-based breeding technologies, biofortified crops, improved hybrid seeds, and biotechnology solutions tailored for commercial farming and specialty crops. Companies are also strengthening collaborations with research institutions, enhancing traceability in seed production, and adopting sustainable research and manufacturing practices to support responsible innovation. Continued investment in precision breeding, climate-resilient crops, and advanced biotechnology platforms is shaping development across the global plant biotechnology industry.

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 Plant Biotechnology 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 Plant Biotechnology Industry Value Chain

Plant Biotechnology 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.

Plant Biotechnology Pricing analysis- How Input Costs, Competition and Positioning Influence Plant Biotechnology 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 Plant Biotechnology Industry

The chapter in the Plant Biotechnology 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 Plant Biotechnology Industry

The report identifies the critical success factors that fuel growth in the Plant Biotechnology market, in addition to market trends and company capabilities. The Plant Biotechnology 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 Plant Biotechnology 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 Technology Type (Genetic Engineering, Marker-Assisted Breeding (MAB), Genome Editing, Plant Tissue Culture, Synthetic Biology, RNA Interference (RNAi)), By Product Category (Biotech Seeds and Traits, Crop Protection and Plant Nutrition Solutions, Synthetic Biology Enabled Products), By Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, Cash), By Trait (Yield Improvement and Growth Enhancement, Herbicide Tolerance, Insect and Pest Resistance, Climate and Abiotic Stress Tolerance, Biofortification and Nutritional Enhancement), By End User (Agricultural Sector and Farmers, Food and Feed Processing Companies, Pharmaceuticals and Industrial Bio-Products).

US Plant Biotechnology Market - Strong Consumer Spending, Private-Label Expansion and Premium Product Demand

The US Plant Biotechnology 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 Plant Biotechnology market size outlook from 2021 to 2032 and the key factors shaping the market along with key strategies adopted by leading companies.

Canada Plant Biotechnology 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 Plant Biotechnology value chain.

Mexico Plant Biotechnology Market- Rising Consumption, Manufacturing Expansion and Export Integration Drive Market Development

Mexico's Plant Biotechnology 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 Plant Biotechnology 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 Plant Biotechnology Market- Premium Food Culture, Retail Transformation and Selective Consumer Spending Drive Demand

France's Plant Biotechnology 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. Plant Biotechnology 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 Plant Biotechnology Market- Import Dependence, Retail Concentration and Product Portfolio Expansion Influence Market Growth

The UK Plant Biotechnology 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 Plant Biotechnology Market- Household Consumption, Tourism and Export-Oriented Manufacturing Support Demand

Spain's Plant Biotechnology 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 Plant Biotechnology 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 Plant Biotechnology Market- Digital Commerce, Brand Trust and Selective Consumer Spending Reshape Demand

China's Plant Biotechnology 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 Plant Biotechnology Market- Rising Consumption, Increasing Investment and Expanding Distribution Create Growth Opportunities

India's Plant Biotechnology 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 Plant Biotechnology Market- Aging Consumers, Household Price Sensitivity and Digital Purchasing Reshape the Market

Japan's Plant Biotechnology 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 Plant Biotechnology Market- Strong Domestic Consumption and Export-Oriented Manufacturing Drive Growth

Brazil's Plant Biotechnology 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 Plant Biotechnology Market- Import Dependence and Value-Added Products Gaining Steady Demand Growth

The Middle East Plant Biotechnology 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.

Plant Biotechnology Competitive Landscape

The Plant Biotechnology 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 Bayer AG, BASF SE, Corteva Agriscience, Syngenta AG, FMC Corporation, UPL Limited, Sumitomo Chemical Co., Ltd., Nufarm Limited, Groupe Limagrain, KWS SAAT SE & Co. KGaA.

Plant Biotechnology Market Segmentation

By Technology Type

Genetic Engineering

Marker-Assisted Breeding (MAB)

Genome Editing

Plant Tissue Culture

Synthetic Biology

RNA Interference (RNAi)

By Product Category

Biotech Seeds and Traits

Crop Protection and Plant Nutrition Solutions

Synthetic Biology Enabled Products

By Crop Type

Cereals and Grains

Oilseeds and Pulses

Fruits and Vegetables

Cash

By Trait

Yield Improvement and Growth Enhancement

Herbicide Tolerance

Insect and Pest Resistance

Climate and Abiotic Stress Tolerance

Biofortification and Nutritional Enhancement

By End User

Agricultural Sector and Farmers

Food and Feed Processing Companies

Pharmaceuticals and Industrial Bio-Products

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 Plant Biotechnology Industry

Bayer AG

BASF SE

Corteva Agriscience

Syngenta AG

FMC Corporation

UPL Limited

Sumitomo Chemical Co., Ltd.

Nufarm Limited

Groupe Limagrain

KWS SAAT SE & Co. KGaA

Frequently Asked Questions

1. What is the current size of the Plant Biotechnology market?

The Plant Biotechnology market is estimated at US\$ 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\$ by 2032, reflecting the investment expansion of leading companies.

2. How fast is the Plant Biotechnology market expected to grow through the forecast period?

The Plant Biotechnology market is projected to expand at a 10.66% CAGR between 2026 and 2032, with growth concentrated in Asia Pacific.

3. Which segment currently accounts for the largest share of the Plant Biotechnology market?

The report analyzes the report across By Technology Type (Genetic Engineering, Marker-Assisted Breeding (MAB), Genome Editing, Plant Tissue Culture, Synthetic Biology, RNA Interference (RNAi)), By Product Category (Biotech Seeds and Traits, Crop Protection and Plant Nutrition Solutions, Synthetic Biology Enabled Products), By Crop Type (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, Cash), By Trait (Yield Improvement and Growth Enhancement, Herbicide Tolerance, Insect and Pest Resistance, Climate and Abiotic Stress Tolerance, Biofortification and Nutritional Enhancement), By End User (Agricultural Sector and Farmers, Food and Feed Processing Companies, Pharmaceuticals and Industrial Bio-Products).

4. Which regions are generating the largest demand for Plant Biotechnology 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 Plant Biotechnology market?

The Plant Biotechnology market includes major participants such as Bayer AG, BASF SE, Corteva Agriscience, Syngenta AG, FMC Corporation, UPL Limited, Sumitomo Chemical Co., Ltd., Nufarm Limited, Groupe Limagrain, KWS SAAT SE & Co. KGaA. 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 Plant Biotechnology 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 Plant Biotechnology 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 PLANT BIOTECHNOLOGY MARKET TRENDS, GROWTH DRIVERS, CHALLENGES, AND OPPORTUNITIES THROUGH 2032

- 3.1. An Introduction to Global Plant Biotechnology Markets in 2026
- 3.2. Global Historic and Forecast Plant Biotechnology 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 Plant Biotechnology 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 Plant Biotechnology Market Opportunities for Industry Stakeholders
- 3.4.4. Potential Challenges across Plant Biotechnology Value Chain

CHAPTER 4- PLANT BIOTECHNOLOGY 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 Plant Biotechnology 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- PLANT BIOTECHNOLOGY 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 Technology Type
- Genetic Engineering
 - Marker-Assisted Breeding (MAB)
 - Genome Editing
 - Plant Tissue Culture

Synthetic Biology
RNA Interference (RNAi)
By Product Category
Biotech Seeds and Traits
Crop Protection and Plant Nutrition Solutions
Synthetic Biology Enabled Products
By Crop Type
Cereals and Grains
Oilseeds and Pulses
Fruits and Vegetables
Cash
By Trait
Yield Improvement and Growth Enhancement
Herbicide Tolerance
Insect and Pest Resistance
Climate and Abiotic Stress Tolerance
Biofortification and Nutritional Enhancement
By End User
Agricultural Sector and Farmers
Food and Feed Processing Companies
Pharmaceuticals and Industrial Bio-Products

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 PLANT BIOTECHNOLOGY MARKET SIZE ANALYSIS AND OUTLOOK

7.1. North America Plant Biotechnology Market Overview
7.2. Leading Companies Operating in North America

7.3. Key Industry Statistics, 2026

7.4. North America Plant Biotechnology Market Trends and Growth Opportunities to 2032

7.5. North America Plant Biotechnology Market Size Outlook by Type

7.6. North America Plant Biotechnology Market Size Outlook by Application

7.7. North America Plant Biotechnology Market Size Outlook by Country

7.8. United States

7.8.1. Key Statistics

7.8.2. The US Plant Biotechnology Market Size Outlook, 2021- 2032

7.8.3. Key Market Drivers and Industry Developments in the US Plant Biotechnology Companies

7.9. Canada

7.9.1. Key Statistics

7.9.2. Canada Plant Biotechnology Market Size Outlook, 2021- 2032

7.9.3. Key Market Drivers and Industry Developments in Canada Plant Biotechnology Companies

7.10. Mexico

7.10.1. Key Statistics

7.10.2. Mexico Plant Biotechnology Market Size Outlook, 2021- 2032

7.10.3. Key Market Drivers and Industry Developments in Mexico Plant Biotechnology Companies

CHAPTER 8- EUROPE PLANT BIOTECHNOLOGY MARKET SIZE ANALYSIS AND OUTLOOK

8.1. Europe Plant Biotechnology Market Overview

8.2. Leading Companies Operating in Europe

8.3. Key Industry Statistics, 2026

8.4. Europe Plant Biotechnology Market Trends and Growth Opportunities to

8.5. Europe Plant Biotechnology Market Size Outlook by Type

8.6. Europe Plant Biotechnology Market Size Outlook by Application

8.7. Europe Plant Biotechnology Market Size Outlook by Country

8.8. Germany

8.8.1. Key Statistics

8.8.2. Germany Plant Biotechnology Market Size Outlook, 2021- 2032

8.8.3. Key Market Drivers and Industry Developments in Germany Plant Biotechnology Companies

8.9. France

8.9.1. Key Statistics

- 8.9.2. France Plant Biotechnology Market Size Outlook, 2021- 2032
- 8.9.3. Key Market Drivers and Industry Developments in France Plant Biotechnology Companies
- 8.10. United Kingdom
 - 8.10.1. Key Statistics
 - 8.10.2. United Kingdom Plant Biotechnology Market Size Outlook, 2021- 2032
 - 8.10.3. Key Market Drivers and Industry Developments in the UK Plant Biotechnology Companies
- 8.11. Spain
 - 8.11.1. Key Statistics
 - 8.11.2. Spain Plant Biotechnology Market Size Outlook, 2021- 2032
 - 8.11.3. Key Market Drivers and Industry Developments in Spain Plant Biotechnology Companies
- 8.12. Italy
 - 8.12.1. Key Statistics
 - 8.12.2. Italy Plant Biotechnology Market Size Outlook, 2021- 2032
 - 8.12.3. Key Market Drivers and Industry Developments in Italy Plant Biotechnology Companies
- 8.13. Rest of Europe
 - 8.13.1. Key Statistics
 - 8.13.2. Rest of Europe Plant Biotechnology Market Size Outlook, 2021- 2032
 - 8.13.3. Key Market Drivers and Industry Developments in Rest of Europe Plant Biotechnology Companies

CHAPTER 9- ASIA PACIFIC PLANT BIOTECHNOLOGY MARKET SIZE ANALYSIS AND OUTLOOK

- 9.1. Asia Pacific Plant Biotechnology Market Overview
- 9.2. Leading Companies Operating in Asia Pacific
- 9.3. Key Industry Statistics, 2026
- 9.4. Asia Pacific Plant Biotechnology Market Trends and Growth Opportunities to
- 9.5. Asia Pacific Plant Biotechnology Market Size Outlook by Type
- 9.6. Asia Pacific Plant Biotechnology Market Size Outlook by Application
- 9.7. Asia Pacific Plant Biotechnology Market Size Outlook by Country
- 9.8. China
 - 9.8.1. Key Statistics
 - 9.8.2. China Plant Biotechnology Market Size Outlook, 2021- 2032
 - 9.8.3. Key Market Drivers and Industry Developments in China Plant Biotechnology Companies

9.9. Japan

9.9.1. Key Statistics

9.9.2. Japan Plant Biotechnology Market Size Outlook, 2021- 2032

9.9.3. Key Market Drivers and Industry Developments in Japan Plant Biotechnology Companies

9.10. India

9.10.1. Key Statistics

9.10.2. India Plant Biotechnology Market Size Outlook, 2021- 2032

9.10.3. Key Market Drivers and Industry Developments in India Plant Biotechnology Companies

9.11. South Korea

9.11.1. Key Statistics

9.11.2. South Korea Plant Biotechnology Market Size Outlook, 2021- 2032

9.11.3. Key Market Drivers and Industry Developments in South Korea Plant Biotechnology Companies

9.12. Australia

9.12.1. Key Statistics

9.12.2. Australia Plant Biotechnology Market Size Outlook, 2021- 2032

9.12.3. Key Market Drivers and Industry Developments in Australia Plant Biotechnology Companies

9.13. Southeast Asia

9.13.1. Key Statistics

9.13.2. Southeast Asia Plant Biotechnology Market Size Outlook, 2021- 2032

9.13.3. Key Market Drivers and Industry Developments in Southeast Asia Plant Biotechnology Companies

CHAPTER 10- SOUTH AND CENTRAL AMERICA PLANT BIOTECHNOLOGY MARKET SIZE ANALYSIS AND OUTLOOK

10.1. South and Central America Plant Biotechnology Market Overview

10.2. Leading Companies Operating in South and Central America

10.3. Key Industry Statistics, 2026

10.4. South and Central America Plant Biotechnology Market Trends and Growth Opportunities to

10.5. South and Central America Plant Biotechnology Market Size Outlook by Type

10.6. South and Central America Plant Biotechnology Market Size Outlook by Application

10.7. South and Central America Plant Biotechnology Market Size Outlook by Country

10.8. Brazil

- 10.8.1. Key Statistics
- 10.8.2. Brazil Plant Biotechnology Market Size Outlook, 2021- 2032
- 10.8.3. Key Market Drivers and Industry Developments in Brazil Plant Biotechnology Companies
- 10.9. Argentina
 - 10.9.1. Key Statistics
 - 10.9.2. Argentina Plant Biotechnology Market Size Outlook, 2021- 2032
 - 10.9.3. Key Market Drivers and Industry Developments in Argentina Plant Biotechnology Companies
- 10.10. Rest of Latin America
 - 10.10.1. Key Statistics
 - 10.10.2. Rest of Latin America Plant Biotechnology Market Size Outlook, 2021- 2032
 - 10.10.3. Key Market Drivers and Industry Developments in Rest of Latin America Plant Biotechnology Companies

CHAPTER 11- MIDDLE EAST AND AFRICA PLANT BIOTECHNOLOGY MARKET SIZE ANALYSIS AND OUTLOOK

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

11.10.3. Key Market Drivers and Industry Developments in Africa Plant Biotechnology Companies

CHAPTER 12- COMPANY PROFILES

12.1. Top Companies in Plant Biotechnology Industry

Bayer AG

BASF SE

Corteva Agriscience

Syngenta AG

FMC Corporation

UPL Limited

Sumitomo Chemical Co., Ltd.

Nufarm Limited

Groupe Limagrain

KWS SAAT SE & Co. KGaA

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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