

Agricultural Biotechnology Market Size, Trends, Analysis, and Outlook By Type (Hybrid Seeds, Transgenic Crops, Bio-pesticides, Bio-fertilizers), By Technology (Genetic Engineering, Tissue Culture, Embryo Rescue, Somatic Hybridization, Molecular Diagnostics, Vaccine, Others), By Application (Crop Production, Crop Protection, Chemical Tolerance, Disease Resistance, Others), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global Agricultural Biotechnology market size is poised to register 7.87% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Agricultural Biotechnology market across By Type (Hybrid Seeds, Transgenic Crops, Bio-pesticides, Bio-fertilizers), By Technology (Genetic Engineering, Tissue Culture, Embryo Rescue, Somatic Hybridization, Molecular Diagnostics, Vaccine, Others), By Application (Crop Production, Crop Protection, Chemical Tolerance, Disease Resistance, Others).

The agricultural biotechnology market is witnessing steady growth, driven by increasing global population, rising demand for food security, and advancements in biotechnology tools and genetic engineering techniques. Agricultural biotechnology encompasses a wide range of technologies, including genetically modified organisms (GMOs), gene editing, and molecular breeding, aimed at improving crop productivity, resilience, and nutritional value while minimizing environmental impact and resource use. With a focus on sustainable agriculture, crop innovation, and agricultural sustainability, farmers, seed companies, and agricultural biotechnology firms are adopting biotechnological solutions

to address challenges such as climate change, soil degradation, and pest resistance in modern farming systems. Moreover, advancements in genomics, bioinformatics, and synthetic biology are driving market expansion, offering new opportunities to develop crop varieties with enhanced traits such as drought tolerance, disease resistance, and nutritional fortification to meet the evolving needs of consumers and the agricultural industry. Additionally, collaborations between agricultural biotechnology companies, research institutions, and government agencies are driving innovation in crop biotechnology, fostering the development of tailored solutions, regulatory frameworks, and public-private partnerships to support sustainable agriculture and ensure food security for future generations.

Agricultural Biotechnology Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Agricultural Biotechnology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Agricultural Biotechnology survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Agricultural Biotechnology industry.

Key market trends defining the global Agricultural Biotechnology demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Agricultural Biotechnology Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Agricultural Biotechnology industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Agricultural Biotechnology companies scaling up production

in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Agricultural Biotechnology industry

Leading Agricultural Biotechnology companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Agricultural Biotechnology companies.

Agricultural Biotechnology Market Study- Strategic Analysis Review

The Agricultural Biotechnology market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Agricultural Biotechnology Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Agricultural Biotechnology industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Agricultural Biotechnology Country Analysis and Revenue Outlook to 2030

Agricultural Biotechnology Market Size, Trends, Analysis, and Outlook By Type (Hybrid Seeds, Transgenic Crops,...

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Agricultural Biotechnology Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Agricultural Biotechnology market segments. Similarly, Strong end-user demand is encouraging Canadian Agricultural Biotechnology companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Agricultural Biotechnology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Agricultural Biotechnology Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Agricultural Biotechnology industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Agricultural Biotechnology market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Agricultural Biotechnology Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Agricultural Biotechnology in Asia Pacific. In particular, China, India, and South East Asian Agricultural

Biotechnology markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Agricultural Biotechnology Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Agricultural Biotechnology Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Agricultural Biotechnology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Agricultural Biotechnology.

Agricultural Biotechnology Market Company Profiles

The global Agricultural Biotechnology market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Bayer AG, BASF SE, Benson Hill Inc, Biological Products Industry Alliance, China National Chemical Corp Ltd, Corteva Inc, DuPont de Nemours Inc, Eurofins Scientific SE, Evogene Ltd, Global Bio chem Technology Group Co. Ltd, Groupe Limagrain Holding, KWS SAAT SE and Co. KGaA, Marrone Bio Innovations Inc, Mitsui and Co. Ltd, Novozymes AS, Nufarm Ltd, Performance Plants Inc, Sumitomo Chemical Co. Ltd, The Dow Chemical Co., Yield10 Bioscience Inc

Recent Agricultural Biotechnology Market Developments

The global Agricultural Biotechnology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Agricultural Biotechnology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Type

Hybrid Seeds

Transgenic Crops

Bio-pesticides

Bio-fertilizers

By Technology

Genetic Engineering

Tissue Culture

Embryo Rescue

Somatic Hybridization

Molecular Diagnostics

Vaccine

Others

By Application

Crop Production

Crop Protection

Chemical Tolerance

Disease Resistance

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Bayer AG

BASF SE

Benson Hill Inc

Biological Products Industry Alliance

China National Chemical Corp Ltd

Corteva Inc

DuPont de Nemours Inc

Eurofins Scientific SE

Evogene Ltd

Global Bio chem Technology Group Co. Ltd

Groupe Limagrain Holding

KWS SAAT SE and Co. KGaA

Marrone Bio Innovations Inc

Mitsui and Co. Ltd

Novozymes AS

Nufarm Ltd

Performance Plants Inc

Sumitomo Chemical Co. Ltd

The Dow Chemical Co.

Yield10 Bioscience Inc

Formats Available: Excel, PDF, and PPT

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 - Evogene Ltd
 - Global Bio chem Technology Group Co. Ltd
 - Groupe Limagrain Holding
 - KWS SAAT SE and Co. KGaA
 - Marrone Bio Innovations Inc
 - Mitsui and Co. Ltd
 - Novozymes AS
 - Nufarm Ltd
 - Performance Plants Inc

Sumitomo Chemical Co. Ltd
The Dow Chemical Co.
Yield10 Bioscience Inc

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