

Agricultural Biotechnology Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Transgenic Crops & Animals, Vaccine Development, Nutritional Supplements, Antibiotic Development, Biofuels, And Flower Culturing), By Organism Type (Plants, Animals, And Microbes) Region and Competition, 2020-2030F

Market Report | 2025-12-09 | 183 pages | TechSci Research

AVAILABLE LICENSES:

- Single User License \$4500.00
- Multi-User License \$5500.00
- Custom Research License \$8000.00

Report description:

Market Overview

The Global Agricultural Biotechnology Market, valued at USD 96.35 Billion in 2024, is projected to experience a CAGR of 9.27% to reach USD 164.01 Billion by 2030. Agricultural biotechnology involves the application of scientific tools and techniques to modify living organisms, primarily plants and animals, for agricultural enhancement. Key drivers supporting market expansion include the escalating global demand for food, which necessitates improved crop yields, and the imperative to enhance nutritional content and resilience in staple crops to address food security concerns.

Key Market Drivers

The increasing global population coupled with persistent food security concerns represents a primary driver for the agricultural biotechnology market. As the world's population continues to expand, the imperative to produce sufficient, nutritious food intensifies, particularly amidst environmental challenges and resource scarcity. Agricultural biotechnology offers solutions to meet this rising demand by enhancing crop resilience and nutritional value.

Key Market Challenges

The global agricultural biotechnology market faces a significant impediment due to the complex and often varied regulatory approval processes across different nations. This fragmented regulatory landscape directly leads to considerable delays in product commercialization. In the United States, according to The Breakthrough Institute citing the Biotechnology Regulatory Service, during fiscal year 2023, less than 20% of Risk Status Reviews were completed within the set timeframes of 180 days and 15

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

months for the respective steps, resulting in 80% of applications being delayed.

Key Market Trends

Precision gene editing technologies are fundamentally reshaping agricultural biotechnology by offering unprecedented precision and speed in modifying plant genomes. Technologies like CRISPR-Cas9 enable targeted alterations, developing crops with enhanced traits such as disease resistance or nutritional value more efficiently than traditional breeding.

Key Market Players

- ADAMA
- Corteva, Agriscience.
- Evogene Ltd.
- KWS SAAT SE & Co. KGaA
- Bayer AG
- Pro Farm Group Inc.
- MITSUI & CO., LTD
- Limagrain
- Nufarm Limited
- Valent BioSciences LLC

Report Scope:

In this report, the Global Agricultural Biotechnology Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□Agricultural Biotechnology Market, By Application:

- o Transgenic Crops & Animals
- o Vaccine Development
- o Nutritional Supplements
- o Antibiotic Development
- o Biofuels
- o Flower Culturing

-□Agricultural Biotechnology Market, By Organism Type:

- o Plants
- o Animals
- o Microbes

-□Agricultural Biotechnology Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Agricultural Biotechnology Market.

Available Customizations:

Global Agricultural Biotechnology Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Voice of Customer
5. Global Agricultural Biotechnology Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Application (Transgenic Crops & Animals, Vaccine Development, Nutritional Supplements, Antibiotic Development, Biofuels, Flower Culturing)
 - 5.2.2. By Organism Type (Plants, Animals, Microbes)
 - 5.2.3. By Region

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.2.4. By Company (2024)
- 5.3. Market Map
- 6. North America Agricultural Biotechnology Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Application
 - 6.2.2. By Organism Type
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Agricultural Biotechnology Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application
 - 6.3.1.2.2. By Organism Type
 - 6.3.2. Canada Agricultural Biotechnology Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Application
 - 6.3.2.2.2. By Organism Type
 - 6.3.3. Mexico Agricultural Biotechnology Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Application
 - 6.3.3.2.2. By Organism Type
 - 7. Europe Agricultural Biotechnology Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Application
 - 7.2.2. By Organism Type
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany Agricultural Biotechnology Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.1.2.2. By Organism Type
 - 7.3.2. France Agricultural Biotechnology Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.3.2.2.2. By Organism Type
- 7.3.3. United Kingdom Agricultural Biotechnology Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application
 - 7.3.3.2.2. By Organism Type
- 7.3.4. Italy Agricultural Biotechnology Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Application
 - 7.3.4.2.2. By Organism Type
- 7.3.5. Spain Agricultural Biotechnology Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Application
 - 7.3.5.2.2. By Organism Type
- 8. Asia Pacific Agricultural Biotechnology Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Application
 - 8.2.2. By Organism Type
 - 8.2.3. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Agricultural Biotechnology Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.1.2.2. By Organism Type
 - 8.3.2. India Agricultural Biotechnology Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application
 - 8.3.2.2.2. By Organism Type
 - 8.3.3. Japan Agricultural Biotechnology Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
 - 8.3.3.2.2. By Organism Type
 - 8.3.4. South Korea Agricultural Biotechnology Market Outlook
 - 8.3.4.1. Market Size & Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Application
 - 8.3.4.2.2. By Organism Type
- 8.3.5. Australia Agricultural Biotechnology Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Application
 - 8.3.5.2.2. By Organism Type
- 9. Middle East & Africa Agricultural Biotechnology Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Application
 - 9.2.2. By Organism Type
 - 9.2.3. By Country
 - 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Agricultural Biotechnology Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.1.2.2. By Organism Type
 - 9.3.2. UAE Agricultural Biotechnology Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.2.2.2. By Organism Type
 - 9.3.3. South Africa Agricultural Biotechnology Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Application
 - 9.3.3.2.2. By Organism Type
 - 10. South America Agricultural Biotechnology Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Application
 - 10.2.2. By Organism Type
 - 10.2.3. By Country
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil Agricultural Biotechnology Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Application
 - 10.3.1.2.2. By Organism Type
- 10.3.2. Colombia Agricultural Biotechnology Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Application
 - 10.3.2.2.2. By Organism Type
- 10.3.3. Argentina Agricultural Biotechnology Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Application
 - 10.3.3.2.2. By Organism Type
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global Agricultural Biotechnology Market: SWOT Analysis
- 14. Porter's Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. ADAMA
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
 - 15.2. Corteva, Agriscience.
 - 15.3. Evogene Ltd.
 - 15.4. KWS SAAT SE & Co. KGaA
 - 15.5. Bayer AG
 - 15.6. Pro Farm Group Inc.
 - 15.7. MITSUI & CO., LTD
 - 15.8. Limagrain
 - 15.9. Nufarm Limited
 - 15.10. Valent BioSciences LLC
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Agricultural Biotechnology Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Transgenic Crops & Animals, Vaccine Development, Nutritional Supplements, Antibiotic Development, Biofuels, And Flower Culturing), By Organism Type (Plants, Animals, And Microbes) Region and Competition, 2020-2030F

Market Report | 2025-12-09 | 183 pages | TechSci Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4500.00
	Multi-User License	\$5500.00
	Custom Research License	\$8000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-03"/>
		Signature	<input type="text"/>