

Global Food Biotechnology Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/G582301CA5B8EN.html>

Date: August 2025

Pages: 146

Price: US\$ 3,200.00 (Single User License)

ID: G582301CA5B8EN

Abstracts

Report Overview

Food biotechnology refers to the application of scientific techniques, including genetic engineering, molecular markers, and tissue culture, to modify or enhance food products for improved quality, nutritional value, shelf life, and resistance to pests or environmental stresses. This field encompasses genetically modified organisms (GMOs), biofortified crops, microbial fermentation for food processing, and enzyme engineering to optimize production efficiency. It plays a crucial role in addressing global challenges such as food security, sustainability, and malnutrition by enabling the development of crops with higher yields, reduced pesticide use, and enhanced nutritional profiles. The industry intersects with agriculture, pharmaceuticals, and environmental science, driven by advancements in CRISPR gene editing, synthetic biology, and precision fermentation technologies. Regulatory frameworks and consumer acceptance remain key considerations, as ethical concerns and labeling requirements influence market adoption.

The global Food Biotechnology market size was estimated at USD 10011.5 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 8.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Food Biotechnology market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Food Biotechnology market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Food Biotechnology market.

Global Food Biotechnology Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

ArcadiaBiosciences
AquaBountyTechnologies
BASFPlantScience
Bayer CropScienceAG
Camson Bio Technologies
DowDuPont
EvogeneLtd
Hy-LineInternational

KWS Group
Monsanto
Origin Agritech
Syngenta AG
Market Segmentation (by Type)
Transgenic Crops
Synthetic Biology Derived Products
Market Segmentation (by Application)
Animals
Plants
Other

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Food Biotechnology Market
Overview of the regional outlook of the Food Biotechnology Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Food Biotechnology Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Food Biotechnology, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Food Biotechnology

1.2 Key Market Segments

1.2.1 Food Biotechnology Segment by Type

1.2.2 Food Biotechnology Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 FOOD BIOTECHNOLOGY MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Food Biotechnology Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Food Biotechnology Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 FOOD BIOTECHNOLOGY MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Food Biotechnology Product Life Cycle

3.3 Global Food Biotechnology Sales by Manufacturers (2020-2025)

3.4 Global Food Biotechnology Revenue Market Share by Manufacturers (2020-2025)

3.5 Food Biotechnology Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Food Biotechnology Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Food Biotechnology Market Competitive Situation and Trends

3.8.1 Food Biotechnology Market Concentration Rate

3.8.2 Global 5 and 10 Largest Food Biotechnology Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 FOOD BIOTECHNOLOGY INDUSTRY CHAIN ANALYSIS

- 4.1 Food Biotechnology Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF FOOD BIOTECHNOLOGY MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Food Biotechnology Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Food Biotechnology Market
- 5.7 ESG Ratings of Leading Companies

6 FOOD BIOTECHNOLOGY MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Food Biotechnology Sales Market Share by Type (2020-2025)
- 6.3 Global Food Biotechnology Market Size Market Share by Type (2020-2025)
- 6.4 Global Food Biotechnology Price by Type (2020-2025)

7 FOOD BIOTECHNOLOGY MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Food Biotechnology Market Sales by Application (2020-2025)
- 7.3 Global Food Biotechnology Market Size (M USD) by Application (2020-2025)

7.4 Global Food Biotechnology Sales Growth Rate by Application (2020-2025)

8 FOOD BIOTECHNOLOGY MARKET SALES BY REGION

8.1 Global Food Biotechnology Sales by Region

8.1.1 Global Food Biotechnology Sales by Region

8.1.2 Global Food Biotechnology Sales Market Share by Region

8.2 Global Food Biotechnology Market Size by Region

8.2.1 Global Food Biotechnology Market Size by Region

8.2.2 Global Food Biotechnology Market Size Market Share by Region

8.3 North America

8.3.1 North America Food Biotechnology Sales by Country

8.3.2 North America Food Biotechnology Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Food Biotechnology Sales by Country

8.4.2 Europe Food Biotechnology Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Food Biotechnology Sales by Region

8.5.2 Asia Pacific Food Biotechnology Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Food Biotechnology Sales by Country

8.6.2 South America Food Biotechnology Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Food Biotechnology Sales by Region
- 8.7.2 Middle East and Africa Food Biotechnology Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 FOOD BIOTECHNOLOGY MARKET PRODUCTION BY REGION

- 9.1 Global Production of Food Biotechnology by Region(2020-2025)
- 9.2 Global Food Biotechnology Revenue Market Share by Region (2020-2025)
- 9.3 Global Food Biotechnology Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Food Biotechnology Production
 - 9.4.1 North America Food Biotechnology Production Growth Rate (2020-2025)
 - 9.4.2 North America Food Biotechnology Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Food Biotechnology Production
 - 9.5.1 Europe Food Biotechnology Production Growth Rate (2020-2025)
 - 9.5.2 Europe Food Biotechnology Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Food Biotechnology Production (2020-2025)
 - 9.6.1 Japan Food Biotechnology Production Growth Rate (2020-2025)
 - 9.6.2 Japan Food Biotechnology Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Food Biotechnology Production (2020-2025)
 - 9.7.1 China Food Biotechnology Production Growth Rate (2020-2025)
 - 9.7.2 China Food Biotechnology Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 ArcadiaBiosciences
 - 10.1.1 ArcadiaBiosciences Basic Information
 - 10.1.2 ArcadiaBiosciences Food Biotechnology Product Overview
 - 10.1.3 ArcadiaBiosciences Food Biotechnology Product Market Performance
 - 10.1.4 ArcadiaBiosciences Business Overview
 - 10.1.5 ArcadiaBiosciences SWOT Analysis

- 10.1.6 ArcadiaBiosciences Recent Developments
- 10.2 AquaBountyTechnologies
 - 10.2.1 AquaBountyTechnologies Basic Information
 - 10.2.2 AquaBountyTechnologies Food Biotechnology Product Overview
 - 10.2.3 AquaBountyTechnologies Food Biotechnology Product Market Performance
 - 10.2.4 AquaBountyTechnologies Business Overview
 - 10.2.5 AquaBountyTechnologies SWOT Analysis
 - 10.2.6 AquaBountyTechnologies Recent Developments
- 10.3 BASFPlantScience
 - 10.3.1 BASFPlantScience Basic Information
 - 10.3.2 BASFPlantScience Food Biotechnology Product Overview
 - 10.3.3 BASFPlantScience Food Biotechnology Product Market Performance
 - 10.3.4 BASFPlantScience Business Overview
 - 10.3.5 BASFPlantScience SWOT Analysis
 - 10.3.6 BASFPlantScience Recent Developments
- 10.4 Bayer CropScienceAG
 - 10.4.1 Bayer CropScienceAG Basic Information
 - 10.4.2 Bayer CropScienceAG Food Biotechnology Product Overview
 - 10.4.3 Bayer CropScienceAG Food Biotechnology Product Market Performance
 - 10.4.4 Bayer CropScienceAG Business Overview
 - 10.4.5 Bayer CropScienceAG Recent Developments
- 10.5 Camson Bio Technologies
 - 10.5.1 Camson Bio Technologies Basic Information
 - 10.5.2 Camson Bio Technologies Food Biotechnology Product Overview
 - 10.5.3 Camson Bio Technologies Food Biotechnology Product Market Performance
 - 10.5.4 Camson Bio Technologies Business Overview
 - 10.5.5 Camson Bio Technologies Recent Developments
- 10.6 DowDuPont
 - 10.6.1 DowDuPont Basic Information
 - 10.6.2 DowDuPont Food Biotechnology Product Overview
 - 10.6.3 DowDuPont Food Biotechnology Product Market Performance
 - 10.6.4 DowDuPont Business Overview
 - 10.6.5 DowDuPont Recent Developments
- 10.7 EvogeneLtd
 - 10.7.1 EvogeneLtd Basic Information
 - 10.7.2 EvogeneLtd Food Biotechnology Product Overview
 - 10.7.3 EvogeneLtd Food Biotechnology Product Market Performance
 - 10.7.4 EvogeneLtd Business Overview
 - 10.7.5 EvogeneLtd Recent Developments

10.8 Hy-LineInternational

10.8.1 Hy-LineInternational Basic Information

10.8.2 Hy-LineInternational Food Biotechnology Product Overview

10.8.3 Hy-LineInternational Food Biotechnology Product Market Performance

10.8.4 Hy-LineInternational Business Overview

10.8.5 Hy-LineInternational Recent Developments

10.9 KWS Group

10.9.1 KWS Group Basic Information

10.9.2 KWS Group Food Biotechnology Product Overview

10.9.3 KWS Group Food Biotechnology Product Market Performance

10.9.4 KWS Group Business Overview

10.9.5 KWS Group Recent Developments

10.10 Monsanto

10.10.1 Monsanto Basic Information

10.10.2 Monsanto Food Biotechnology Product Overview

10.10.3 Monsanto Food Biotechnology Product Market Performance

10.10.4 Monsanto Business Overview

10.10.5 Monsanto Recent Developments

10.11 Origin Agritech

10.11.1 Origin Agritech Basic Information

10.11.2 Origin Agritech Food Biotechnology Product Overview

10.11.3 Origin Agritech Food Biotechnology Product Market Performance

10.11.4 Origin Agritech Business Overview

10.11.5 Origin Agritech Recent Developments

10.12 Syngenta AG

10.12.1 Syngenta AG Basic Information

10.12.2 Syngenta AG Food Biotechnology Product Overview

10.12.3 Syngenta AG Food Biotechnology Product Market Performance

10.12.4 Syngenta AG Business Overview

10.12.5 Syngenta AG Recent Developments

11 FOOD BIOTECHNOLOGY MARKET FORECAST BY REGION

11.1 Global Food Biotechnology Market Size Forecast

11.2 Global Food Biotechnology Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Food Biotechnology Market Size Forecast by Country

11.2.3 Asia Pacific Food Biotechnology Market Size Forecast by Region

11.2.4 South America Food Biotechnology Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Food Biotechnology by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Food Biotechnology Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Food Biotechnology by Type (2026-2033)

12.1.2 Global Food Biotechnology Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Food Biotechnology by Type (2026-2033)

12.2 Global Food Biotechnology Market Forecast by Application (2026-2033)

12.2.1 Global Food Biotechnology Sales (K Units) Forecast by Application

12.2.2 Global Food Biotechnology Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Market Size (M USD) Segment Executive Summary
Table 4. Food Biotechnology Market Size Comparison by Region (M USD)
Table 5. Global Food Biotechnology Sales (K Units) by Manufacturers (2020-2025)
Table 6. Global Food Biotechnology Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Food Biotechnology Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Food Biotechnology Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Food Biotechnology as of 2024)
Table 10. Global Market Food Biotechnology Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Food Biotechnology Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Food Biotechnology Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Food Biotechnology Sales by Type (K Units)
Table 26. Global Food Biotechnology Market Size by Type (M USD)
Table 27. Global Food Biotechnology Sales (K Units) by Type (2020-2025)
Table 28. Global Food Biotechnology Sales Market Share by Type (2020-2025)
Table 29. Global Food Biotechnology Market Size (M USD) by Type (2020-2025)
Table 30. Global Food Biotechnology Market Size Share by Type (2020-2025)
Table 31. Global Food Biotechnology Price (USD/Unit) by Type (2020-2025)

Table 32. Global Food Biotechnology Sales (K Units) by Application
Table 33. Global Food Biotechnology Market Size by Application
Table 34. Global Food Biotechnology Sales by Application (2020-2025) & (K Units)
Table 35. Global Food Biotechnology Sales Market Share by Application (2020-2025)
Table 36. Global Food Biotechnology Market Size by Application (2020-2025) & (M USD)
Table 37. Global Food Biotechnology Market Share by Application (2020-2025)
Table 38. Global Food Biotechnology Sales Growth Rate by Application (2020-2025)
Table 39. Global Food Biotechnology Sales by Region (2020-2025) & (K Units)
Table 40. Global Food Biotechnology Sales Market Share by Region (2020-2025)
Table 41. Global Food Biotechnology Market Size by Region (2020-2025) & (M USD)
Table 42. Global Food Biotechnology Market Size Market Share by Region (2020-2025)
Table 43. North America Food Biotechnology Sales by Country (2020-2025) & (K Units)
Table 44. North America Food Biotechnology Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Food Biotechnology Sales by Country (2020-2025) & (K Units)
Table 46. Europe Food Biotechnology Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Food Biotechnology Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Food Biotechnology Market Size by Region (2020-2025) & (M USD)
Table 49. South America Food Biotechnology Sales by Country (2020-2025) & (K Units)
Table 50. South America Food Biotechnology Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Food Biotechnology Sales by Region (2020-2025) & (K Units)
Table 52. Middle East and Africa Food Biotechnology Market Size by Region (2020-2025) & (M USD)
Table 53. Global Food Biotechnology Production (K Units) by Region(2020-2025)
Table 54. Global Food Biotechnology Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Food Biotechnology Revenue Market Share by Region (2020-2025)
Table 56. Global Food Biotechnology Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 57. North America Food Biotechnology Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. Europe Food Biotechnology Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Japan Food Biotechnology Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. China Food Biotechnology Production (K Units), Revenue (US\$ Million), Price

(USD/Unit) and Gross Margin (2020-2025)

Table 61. ArcadiaBiosciences Basic Information

Table 62. ArcadiaBiosciences Food Biotechnology Product Overview

Table 63. ArcadiaBiosciences Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. ArcadiaBiosciences Business Overview

Table 65. ArcadiaBiosciences SWOT Analysis

Table 66. ArcadiaBiosciences Recent Developments

Table 67. AquaBountyTechnologies Basic Information

Table 68. AquaBountyTechnologies Food Biotechnology Product Overview

Table 69. AquaBountyTechnologies Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. AquaBountyTechnologies Business Overview

Table 71. AquaBountyTechnologies SWOT Analysis

Table 72. AquaBountyTechnologies Recent Developments

Table 73. BASFPlantScience Basic Information

Table 74. BASFPlantScience Food Biotechnology Product Overview

Table 75. BASFPlantScience Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. BASFPlantScience Business Overview

Table 77. BASFPlantScience SWOT Analysis

Table 78. BASFPlantScience Recent Developments

Table 79. Bayer CropScienceAG Basic Information

Table 80. Bayer CropScienceAG Food Biotechnology Product Overview

Table 81. Bayer CropScienceAG Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 82. Bayer CropScienceAG Business Overview

Table 83. Bayer CropScienceAG Recent Developments

Table 84. Camson Bio Technologies Basic Information

Table 85. Camson Bio Technologies Food Biotechnology Product Overview

Table 86. Camson Bio Technologies Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 87. Camson Bio Technologies Business Overview

Table 88. Camson Bio Technologies Recent Developments

Table 89. DowDuPont Basic Information

Table 90. DowDuPont Food Biotechnology Product Overview

Table 91. DowDuPont Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 92. DowDuPont Business Overview

Table 93. DowDuPont Recent Developments
Table 94. EvogeneLtd Basic Information
Table 95. EvogeneLtd Food Biotechnology Product Overview
Table 96. EvogeneLtd Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. EvogeneLtd Business Overview
Table 98. EvogeneLtd Recent Developments
Table 99. Hy-LineInternational Basic Information
Table 100. Hy-LineInternational Food Biotechnology Product Overview
Table 101. Hy-LineInternational Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. Hy-LineInternational Business Overview
Table 103. Hy-LineInternational Recent Developments
Table 104. KWS Group Basic Information
Table 105. KWS Group Food Biotechnology Product Overview
Table 106. KWS Group Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. KWS Group Business Overview
Table 108. KWS Group Recent Developments
Table 109. Monsanto Basic Information
Table 110. Monsanto Food Biotechnology Product Overview
Table 111. Monsanto Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 112. Monsanto Business Overview
Table 113. Monsanto Recent Developments
Table 114. Origin Agritech Basic Information
Table 115. Origin Agritech Food Biotechnology Product Overview
Table 116. Origin Agritech Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 117. Origin Agritech Business Overview
Table 118. Origin Agritech Recent Developments
Table 119. Syngenta AG Basic Information
Table 120. Syngenta AG Food Biotechnology Product Overview
Table 121. Syngenta AG Food Biotechnology Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 122. Syngenta AG Business Overview
Table 123. Syngenta AG Recent Developments
Table 124. Global Food Biotechnology Sales Forecast by Region (2026-2033) & (K Units)

Table 125. Global Food Biotechnology Market Size Forecast by Region (2026-2033) & (M USD)

Table 126. North America Food Biotechnology Sales Forecast by Country (2026-2033) & (K Units)

Table 127. North America Food Biotechnology Market Size Forecast by Country (2026-2033) & (M USD)

Table 128. Europe Food Biotechnology Sales Forecast by Country (2026-2033) & (K Units)

Table 129. Europe Food Biotechnology Market Size Forecast by Country (2026-2033) & (M USD)

Table 130. Asia Pacific Food Biotechnology Sales Forecast by Region (2026-2033) & (K Units)

Table 131. Asia Pacific Food Biotechnology Market Size Forecast by Region (2026-2033) & (M USD)

Table 132. South America Food Biotechnology Sales Forecast by Country (2026-2033) & (K Units)

Table 133. South America Food Biotechnology Market Size Forecast by Country (2026-2033) & (M USD)

Table 134. Middle East and Africa Food Biotechnology Sales Forecast by Country (2026-2033) & (Units)

Table 135. Middle East and Africa Food Biotechnology Market Size Forecast by Country (2026-2033) & (M USD)

Table 136. Global Food Biotechnology Sales Forecast by Type (2026-2033) & (K Units)

Table 137. Global Food Biotechnology Market Size Forecast by Type (2026-2033) & (M USD)

Table 138. Global Food Biotechnology Price Forecast by Type (2026-2033) & (USD/Unit)

Table 139. Global Food Biotechnology Sales (K Units) Forecast by Application (2026-2033)

Table 140. Global Food Biotechnology Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Food Biotechnology
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Food Biotechnology Market Size (M USD), 2024-2033
- Figure 5. Global Food Biotechnology Market Size (M USD) (2020-2033)
- Figure 6. Global Food Biotechnology Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Food Biotechnology Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Food Biotechnology Product Life Cycle
- Figure 13. Food Biotechnology Sales Share by Manufacturers in 2024
- Figure 14. Global Food Biotechnology Revenue Share by Manufacturers in 2024
- Figure 15. Food Biotechnology Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Food Biotechnology Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Food Biotechnology Revenue in 2024
- Figure 18. Industry Chain Map of Food Biotechnology
- Figure 19. Global Food Biotechnology Market PEST Analysis
- Figure 20. Global Food Biotechnology Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Food Biotechnology Market Share by Type
- Figure 27. Sales Market Share of Food Biotechnology by Type (2020-2025)
- Figure 28. Sales Market Share of Food Biotechnology by Type in 2024
- Figure 29. Market Size Share of Food Biotechnology by Type (2020-2025)
- Figure 30. Market Size Share of Food Biotechnology by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Food Biotechnology Market Share by Application

Figure 33. Global Food Biotechnology Sales Market Share by Application (2020-2025)

Figure 34. Global Food Biotechnology Sales Market Share by Application in 2024

Figure 35. Global Food Biotechnology Market Share by Application (2020-2025)

Figure 36. Global Food Biotechnology Market Share by Application in 2024

Figure 37. Global Food Biotechnology Sales Growth Rate by Application (2020-2025)

Figure 38. Global Food Biotechnology Sales Market Share by Region (2020-2025)

Figure 39. Global Food Biotechnology Market Size Market Share by Region (2020-2025)

Figure 40. North America Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Food Biotechnology Sales Market Share by Country in 2024

Figure 43. North America Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Food Biotechnology Market Size Market Share by Country in 2024

Figure 45. U.S. Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Food Biotechnology Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Food Biotechnology Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Food Biotechnology Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Food Biotechnology Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Food Biotechnology Sales Market Share by Country in 2024

Figure 53. Europe Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Food Biotechnology Market Size Market Share by Country in 2024

Figure 55. Germany Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Food Biotechnology Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Food Biotechnology Sales Market Share by Region in 2024

Figure 67. Asia Pacific Food Biotechnology Market Size Market Share by Region in 2024

Figure 68. China Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Food Biotechnology Sales and Growth Rate (K Units)

Figure 79. South America Food Biotechnology Sales Market Share by Country in 2024

Figure 80. South America Food Biotechnology Market Size and Growth Rate (M USD)

Figure 81. South America Food Biotechnology Market Size Market Share by Country in 2024

Figure 82. Brazil Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Food Biotechnology Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Food Biotechnology Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Food Biotechnology Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Food Biotechnology Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Food Biotechnology Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Food Biotechnology Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Food Biotechnology Production Market Share by Region (2020-2025)

Figure 103. North America Food Biotechnology Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Food Biotechnology Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Food Biotechnology Production (K Units) Growth Rate (2020-2025)

Figure 106. China Food Biotechnology Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Food Biotechnology Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Food Biotechnology Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Food Biotechnology Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Food Biotechnology Market Share Forecast by Type (2026-2033)

Figure 111. Global Food Biotechnology Sales Forecast by Application (2026-2033)

Figure 112. Global Food Biotechnology Market Share Forecast by Application (2026-2033)

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