

Global Air Protein Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air Protein market size is expected to reach \$ 22.94 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Air Protein refers to a new type of protein ingredient produced by using carbon dioxide, oxygen, nitrogen and renewable energy through gas fermentation, hydrogen-oxidizing bacterial fermentation or microbial protein synthesis. Instead of relying on conventional farmland or large-scale animal farming, the process converts carbon sources, nitrogen sources and energy into protein-rich microbial biomass in bioreactors, which can then be processed into powders, food ingredients or nutritional products. Air protein can be used in alternative meat, protein powders, functional foods and animal feed, and is regarded as an important segment of sustainable protein, precision fermentation protein and carbon-utilization food technology. In 2025, global Air Protein production reached approximately 1366 tons, with an average global market price of around US\$8200 per ton. The production capacity for Air Protein in 2025 was approximately 2000 tons. The typical gross profit margin for Air Protein is between 20% and 40%.

The Air Protein market is still at an early stage of commercialization, with a relatively small market size but strong long-term growth potential driven by sustainable food demand, alternative proteins, carbon utilization and food security concerns. Compared with plant-based and conventional fermentation proteins, air protein offers the potential advantages of low land use, independence from climate and seasons, and stable production in controlled bioreactors. However, the industry still faces challenges such as high production costs, scale-up complexity, regulatory approval requirements and limited consumer awareness. In the short term, applications are expected to focus on high-value nutritional proteins, specialty food ingredients and animal feed, while broader adoption in alternative meat, dairy alternatives and mainstream food ingredients may

occur as bioreactor scale-up improves, renewable energy costs decline and regulatory frameworks become clearer.

This report studies the global Air Protein production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air Protein and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Air Protein that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air Protein total production and demand, 2021-2032, (Tons)

Global Air Protein total production value, 2021-2032, (USD Million)

Global Air Protein production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Air Protein consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Air Protein domestic production, consumption, key domestic manufacturers and share

Global Air Protein production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Air Protein production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Air Protein production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Air Protein market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Protein, Solar Foods, NovoNutrients, Aerbio, Farmless, Kiverdi, Calysta, Unibio, String Bio, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Air Protein market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Air Protein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air Protein Market, Segmentation by Type:

CO₂-based Air Protein

Methane-based Gas Protein

Other

Global Air Protein Market, Segmentation by Production Technology:

Gas Fermentation Protein

Hydrogen-oxidizing Bacteria Fermentation Protein

Methanotroph Fermentation Protein

Global Air Protein Market, Segmentation by Application:

Food and Nutritional Supplements

Animal Feed

Functional Biological Products

Industrial Bio-based Materials

Others

Companies Profiled:

Air Protein

Solar Foods

NovoNutrients

Aerbio

Farmless

Kiverdi

Calysta

Unibio

String Bio

Key Questions Answered:

1. How big is the global Air Protein market?
2. What is the demand of the global Air Protein market?
3. What is the year over year growth of the global Air Protein market?
4. What is the production and production value of the global Air Protein market?
5. Who are the key producers in the global Air Protein market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Air Protein Introduction
- 1.2 World Air Protein Supply & Forecast
 - 1.2.1 World Air Protein Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Air Protein Production (2021-2032)
 - 1.2.3 World Air Protein Pricing Trends (2021-2032)
- 1.3 World Air Protein Production by Region (Based on Production Site)
 - 1.3.1 World Air Protein Production Value by Region (2021-2032)
 - 1.3.2 World Air Protein Production by Region (2021-2032)
 - 1.3.3 World Air Protein Average Price by Region (2021-2032)
 - 1.3.4 North America Air Protein Production (2021-2032)
 - 1.3.5 Europe Air Protein Production (2021-2032)
 - 1.3.6 China Air Protein Production (2021-2032)
 - 1.3.7 Japan Air Protein Production (2021-2032)
 - 1.3.8 India Air Protein Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Air Protein Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Air Protein Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Air Protein Demand (2021-2032)
- 2.2 World Air Protein Consumption by Region
 - 2.2.1 World Air Protein Consumption by Region (2021-2026)
 - 2.2.2 World Air Protein Consumption Forecast by Region (2027-2032)
- 2.3 United States Air Protein Consumption (2021-2032)
- 2.4 China Air Protein Consumption (2021-2032)
- 2.5 Europe Air Protein Consumption (2021-2032)
- 2.6 Japan Air Protein Consumption (2021-2032)
- 2.7 South Korea Air Protein Consumption (2021-2032)
- 2.8 ASEAN Air Protein Consumption (2021-2032)
- 2.9 India Air Protein Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Air Protein Production Value by Manufacturer (2021-2026)
- 3.2 World Air Protein Production by Manufacturer (2021-2026)
- 3.3 World Air Protein Average Price by Manufacturer (2021-2026)
- 3.4 Air Protein Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Air Protein Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Air Protein in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Air Protein in 2025
- 3.6 Air Protein Market: Overall Company Footprint Analysis
 - 3.6.1 Air Protein Market: Region Footprint
 - 3.6.2 Air Protein Market: Company Product Type Footprint
 - 3.6.3 Air Protein Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Air Protein Production Value Comparison
 - 4.1.1 United States VS China: Air Protein Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Air Protein Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Air Protein Production Comparison
 - 4.2.1 United States VS China: Air Protein Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Air Protein Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Air Protein Consumption Comparison
 - 4.3.1 United States VS China: Air Protein Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Air Protein Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Air Protein Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Air Protein Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers Air Protein Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Air Protein Production (2021-2026)
- 4.5 China Based Air Protein Manufacturers and Market Share
 - 4.5.1 China Based Air Protein Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Air Protein Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Air Protein Production (2021-2026)
- 4.6 Rest of World Based Air Protein Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Air Protein Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Air Protein Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Air Protein Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Air Protein Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 CO₂-based Air Protein
 - 5.2.2 Methane-based Gas Protein
 - 5.2.3 Other
- 5.3 Market Segment by Type
 - 5.3.1 World Air Protein Production by Type (2021-2032)
 - 5.3.2 World Air Protein Production Value by Type (2021-2032)
 - 5.3.3 World Air Protein Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCTION TECHNOLOGY

- 6.1 World Air Protein Market Size Overview by Production Technology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Production Technology
 - 6.2.1 Gas Fermentation Protein
 - 6.2.2 Hydrogen-oxidizing Bacteria Fermentation Protein
 - 6.2.3 Methanotroph Fermentation Protein
- 6.3 Market Segment by Production Technology
 - 6.3.1 World Air Protein Production by Production Technology (2021-2032)
 - 6.3.2 World Air Protein Production Value by Production Technology (2021-2032)
 - 6.3.3 World Air Protein Average Price by Production Technology (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Air Protein Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Food and Nutritional Supplements

7.2.2 Animal Feed

7.2.3 Functional Biological Products

7.2.4 Industrial Bio-based Materials

7.2.5 Others

7.3 Market Segment by Application

7.3.1 World Air Protein Production by Application (2021-2032)

7.3.2 World Air Protein Production Value by Application (2021-2032)

7.3.3 World Air Protein Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Air Protein

8.1.1 Air Protein Details

8.1.2 Air Protein Major Business

8.1.3 Air Protein Air Protein Product and Services

8.1.4 Air Protein Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Air Protein Recent Developments/Updates

8.1.6 Air Protein Competitive Strengths & Weaknesses

8.2 Solar Foods

8.2.1 Solar Foods Details

8.2.2 Solar Foods Major Business

8.2.3 Solar Foods Air Protein Product and Services

8.2.4 Solar Foods Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Solar Foods Recent Developments/Updates

8.2.6 Solar Foods Competitive Strengths & Weaknesses

8.3 NovoNutrients

8.3.1 NovoNutrients Details

8.3.2 NovoNutrients Major Business

8.3.3 NovoNutrients Air Protein Product and Services

8.3.4 NovoNutrients Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 NovoNutrients Recent Developments/Updates

8.3.6 NovoNutrients Competitive Strengths & Weaknesses

8.4 Aerbio

8.4.1 Aerbio Details

8.4.2 Aerbio Major Business

8.4.3 Aerbio Air Protein Product and Services

8.4.4 Aerbio Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Aerbio Recent Developments/Updates

8.4.6 Aerbio Competitive Strengths & Weaknesses

8.5 Farmless

8.5.1 Farmless Details

8.5.2 Farmless Major Business

8.5.3 Farmless Air Protein Product and Services

8.5.4 Farmless Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Farmless Recent Developments/Updates

8.5.6 Farmless Competitive Strengths & Weaknesses

8.6 Kiverdi

8.6.1 Kiverdi Details

8.6.2 Kiverdi Major Business

8.6.3 Kiverdi Air Protein Product and Services

8.6.4 Kiverdi Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Kiverdi Recent Developments/Updates

8.6.6 Kiverdi Competitive Strengths & Weaknesses

8.7 Calysta

8.7.1 Calysta Details

8.7.2 Calysta Major Business

8.7.3 Calysta Air Protein Product and Services

8.7.4 Calysta Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Calysta Recent Developments/Updates

8.7.6 Calysta Competitive Strengths & Weaknesses

8.8 Unibio

8.8.1 Unibio Details

8.8.2 Unibio Major Business

8.8.3 Unibio Air Protein Product and Services

8.8.4 Unibio Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Unibio Recent Developments/Updates

8.8.6 Unibio Competitive Strengths & Weaknesses

8.9 String Bio

8.9.1 String Bio Details

8.9.2 String Bio Major Business

8.9.3 String Bio Air Protein Product and Services

8.9.4 String Bio Air Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 String Bio Recent Developments/Updates

8.9.6 String Bio Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Air Protein Industry Chain

9.2 Air Protein Upstream Analysis

9.2.1 Air Protein Core Raw Materials

9.2.2 Main Manufacturers of Air Protein Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Air Protein Production Mode

9.6 Air Protein Procurement Model

9.7 Air Protein Industry Sales Model and Sales Channels

9.7.1 Air Protein Sales Model

9.7.2 Air Protein Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Air Protein Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Air Protein Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Air Protein Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Air Protein Production Value Market Share by Region (2021-2026)
- Table 5. World Air Protein Production Value Market Share by Region (2027-2032)
- Table 6. World Air Protein Production by Region (2021-2026) & (Tons)
- Table 7. World Air Protein Production by Region (2027-2032) & (Tons)
- Table 8. World Air Protein Production Market Share by Region (2021-2026)
- Table 9. World Air Protein Production Market Share by Region (2027-2032)
- Table 10. World Air Protein Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Air Protein Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Air Protein Major Market Trends
- Table 13. World Air Protein Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Air Protein Consumption by Region (2021-2026) & (Tons)
- Table 15. World Air Protein Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Air Protein Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Air Protein Producers in 2025
- Table 18. World Air Protein Production by Manufacturer (2021-2026) & (Tons)
- Table 19. Production Market Share of Key Air Protein Producers in 2025
- Table 20. World Air Protein Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Air Protein Company Evaluation Quadrant
- Table 22. World Air Protein Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Air Protein Production Site of Key Manufacturer
- Table 24. Air Protein Market: Company Product Type Footprint
- Table 25. Air Protein Market: Company Product Application Footprint
- Table 26. Air Protein Competitive Factors
- Table 27. Air Protein New Entrant and Capacity Expansion Plans
- Table 28. Air Protein Mergers & Acquisitions Activity
- Table 29. United States VS China Air Protein Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Air Protein Production Comparison, (2021 & 2025 &

2032) & (Tons)

Table 31. United States VS China Air Protein Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Air Protein Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Air Protein Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Air Protein Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Air Protein Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Air Protein Production Market Share (2021-2026)

Table 37. China Based Air Protein Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Air Protein Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Air Protein Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Air Protein Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Air Protein Production Market Share (2021-2026)

Table 42. Rest of World Based Air Protein Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Air Protein Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Air Protein Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Air Protein Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Air Protein Production Market Share (2021-2026)

Table 47. World Air Protein Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Air Protein Production by Type (2021-2026) & (Tons)

Table 49. World Air Protein Production by Type (2027-2032) & (Tons)

Table 50. World Air Protein Production Value by Type (2021-2026) & (USD Million)

Table 51. World Air Protein Production Value by Type (2027-2032) & (USD Million)

Table 52. World Air Protein Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Air Protein Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Air Protein Production Value by Production Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Air Protein Production by Production Technology (2021-2026) & (Tons)

Table 56. World Air Protein Production by Production Technology (2027-2032) & (Tons)

Table 57. World Air Protein Production Value by Production Technology (2021-2026) & (USD Million)

Table 58. World Air Protein Production Value by Production Technology (2027-2032) & (USD Million)

Table 59. World Air Protein Average Price by Production Technology (2021-2026) & (US\$/Ton)

Table 60. World Air Protein Average Price by Production Technology (2027-2032) & (US\$/Ton)

Table 61. World Air Protein Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Air Protein Production by Application (2021-2026) & (Tons)

Table 63. World Air Protein Production by Application (2027-2032) & (Tons)

Table 64. World Air Protein Production Value by Application (2021-2026) & (USD Million)

Table 65. World Air Protein Production Value by Application (2027-2032) & (USD Million)

Table 66. World Air Protein Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Air Protein Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Air Protein Basic Information, Manufacturing Base and Competitors

Table 69. Air Protein Major Business

Table 70. Air Protein Air Protein Product and Services

Table 71. Air Protein Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Air Protein Recent Developments/Updates

Table 73. Air Protein Competitive Strengths & Weaknesses

Table 74. Solar Foods Basic Information, Manufacturing Base and Competitors

Table 75. Solar Foods Major Business

Table 76. Solar Foods Air Protein Product and Services

Table 77. Solar Foods Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Solar Foods Recent Developments/Updates

Table 79. Solar Foods Competitive Strengths & Weaknesses

Table 80. NovoNutrients Basic Information, Manufacturing Base and Competitors

Table 81. NovoNutrients Major Business

Table 82. NovoNutrients Air Protein Product and Services

Table 83. NovoNutrients Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. NovoNutrients Recent Developments/Updates

Table 85. NovoNutrients Competitive Strengths & Weaknesses

Table 86. Aerbio Basic Information, Manufacturing Base and Competitors

Table 87. Aerbio Major Business

Table 88. Aerbio Air Protein Product and Services

Table 89. Aerbio Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Aerbio Recent Developments/Updates

Table 91. Aerbio Competitive Strengths & Weaknesses

Table 92. Farmless Basic Information, Manufacturing Base and Competitors

Table 93. Farmless Major Business

Table 94. Farmless Air Protein Product and Services

Table 95. Farmless Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Farmless Recent Developments/Updates

Table 97. Farmless Competitive Strengths & Weaknesses

Table 98. Kiverdi Basic Information, Manufacturing Base and Competitors

Table 99. Kiverdi Major Business

Table 100. Kiverdi Air Protein Product and Services

Table 101. Kiverdi Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Kiverdi Recent Developments/Updates

Table 103. Kiverdi Competitive Strengths & Weaknesses

Table 104. Calysta Basic Information, Manufacturing Base and Competitors

Table 105. Calysta Major Business

Table 106. Calysta Air Protein Product and Services

Table 107. Calysta Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Calysta Recent Developments/Updates

Table 109. Calysta Competitive Strengths & Weaknesses

Table 110. Unibio Basic Information, Manufacturing Base and Competitors

Table 111. Unibio Major Business

Table 112. Unibio Air Protein Product and Services

Table 113. Unibio Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Unibio Recent Developments/Updates

Table 115. Unibio Competitive Strengths & Weaknesses

Table 116. String Bio Basic Information, Manufacturing Base and Competitors

Table 117. String Bio Major Business

Table 118. String Bio Air Protein Product and Services

Table 119. String Bio Air Protein Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. String Bio Recent Developments/Updates

Table 121. String Bio Competitive Strengths & Weaknesses

Table 122. Global Key Players of Air Protein Upstream (Raw Materials)

Table 123. Global Air Protein Typical Customers

Table 124. Air Protein Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Air Protein Picture

Figure 2. World Air Protein Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Air Protein Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Air Protein Production (2021-2032) & (Tons)

Figure 5. World Air Protein Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Air Protein Production Value Market Share by Region (2021-2032)

Figure 7. World Air Protein Production Market Share by Region (2021-2032)

Figure 8. North America Air Protein Production (2021-2032) & (Tons)

Figure 9. Europe Air Protein Production (2021-2032) & (Tons)

Figure 10. China Air Protein Production (2021-2032) & (Tons)

Figure 11. Japan Air Protein Production (2021-2032) & (Tons)

Figure 12. India Air Protein Production (2021-2032) & (Tons)

Figure 13. Air Protein Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Air Protein Consumption (2021-2032) & (Tons)

Figure 16. World Air Protein Consumption Market Share by Region (2021-2032)

Figure 17. United States Air Protein Consumption (2021-2032) & (Tons)

Figure 18. China Air Protein Consumption (2021-2032) & (Tons)

Figure 19. Europe Air Protein Consumption (2021-2032) & (Tons)

Figure 20. Japan Air Protein Consumption (2021-2032) & (Tons)

Figure 21. South Korea Air Protein Consumption (2021-2032) & (Tons)

Figure 22. ASEAN Air Protein Consumption (2021-2032) & (Tons)

Figure 23. India Air Protein Consumption (2021-2032) & (Tons)

Figure 24. Producer Shipments of Air Protein by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Air Protein Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Air Protein Markets in 2025

Figure 27. United States VS China: Air Protein Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Air Protein Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Air Protein Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Air Protein Production Market Share 2025

- Figure 31. China Based Manufacturers Air Protein Production Market Share 2025
- Figure 32. Rest of World Based Manufacturers Air Protein Production Market Share 2025
- Figure 33. World Air Protein Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 34. World Air Protein Production Value Market Share by Type in 2025
- Figure 35. CO₂-based Air Protein
- Figure 36. Methane-based Gas Protein
- Figure 37. Other
- Figure 38. World Air Protein Production Market Share by Type (2021-2032)
- Figure 39. World Air Protein Production Value Market Share by Type (2021-2032)
- Figure 40. World Air Protein Average Price by Type (2021-2032) & (US\$/Ton)
- Figure 41. World Air Protein Production Value by Production Technology, (USD Million), 2021 & 2025 & 2032
- Figure 42. World Air Protein Production Value Market Share by Production Technology in 2025
- Figure 43. Gas Fermentation Protein
- Figure 44. Hydrogen-oxidizing Bacteria Fermentation Protein
- Figure 45. Methanotroph Fermentation Protein
- Figure 46. World Air Protein Production Market Share by Production Technology (2021-2032)
- Figure 47. World Air Protein Production Value Market Share by Production Technology (2021-2032)
- Figure 48. World Air Protein Average Price by Production Technology (2021-2032) & (US\$/Ton)
- Figure 49. World Air Protein Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 50. World Air Protein Production Value Market Share by Application in 2025
- Figure 51. Food and Nutritional Supplements
- Figure 52. Animal Feed
- Figure 53. Functional Biological Products
- Figure 54. Industrial Bio-based Materials
- Figure 55. Others
- Figure 56. World Air Protein Production Market Share by Application (2021-2032)
- Figure 57. World Air Protein Production Value Market Share by Application (2021-2032)
- Figure 58. World Air Protein Average Price by Application (2021-2032) & (US\$/Ton)
- Figure 59. Air Protein Industry Chain
- Figure 60. Air Protein Procurement Model
- Figure 61. Air Protein Sales Model

Figure 62. Air Protein Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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