

Global Feed Single Cell Protein Market Growth 2026-2032

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Abstracts

The global Feed Single Cell Protein market size is predicted to grow from US\$ 440 million in 2025 to US\$ 826 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

Feed-grade single-cell protein (SCP) refers to microbial cells used in animal feed, such as yeast, bacteria, mold, and algae. Its production primarily involves fermentation technology, utilizing various organic wastes or industrial byproducts as carbon and nitrogen sources to cultivate microbial cells, followed by collection, separation, and drying to obtain the final product. Feed-grade single-cell protein is rich in protein, amino acids, vitamins, and minerals, and can partially or completely replace plant-based or animal-based proteins such as fishmeal and soybeans in animal feed. It provides a sustainable solution, helping to address protein deficiency and food shortages. With the evolution of the SCP industry, feed-grade single-cell protein can be categorized into emerging SCPs and traditional SCPs, each with distinct characteristics in terms of raw materials, microbial strains, production processes, and application scenarios. The gross profit margin is approximately 10-30%. Global sales of single-cell protein for animal feed are projected to reach approximately 150,000 tons by 2025, with an average price of around \$3,000 per ton.

Global key players of feed single cell protein include Meihua Holdings Group, Lesaffre, Associated British Foods plc, Angel Yeast, Lallemand Animal Nutrition, etc. The top three players hold a share over 50%. Asia-Pacific is the largest market, has a share about 33%, followed by Europe, and North America, with share 31% and 23%, separately. In terms of product type, traditional SCP is the largest segment, occupied for a share of 58%, and in terms of application, aquaculture has a share about 47%.

Market drivers primarily include the following:

Traditional Protein Resource Shortage

Global fishmeal production has stagnated, and soybean protein production is limited by arable land. Single-cell protein, however, can be produced from industrial waste gas and agricultural waste, independent of arable land and fishery resources, making it a key pathway for sustainable protein supply. For example, methane fermentation technology converts greenhouse gases into high-value protein, alleviating resource competition and carbon emission pressures.

Environmental Policies and Carbon Neutrality Goals

Countries are promoting emissions reduction in livestock farming. Single-cell protein production processes have 60%-90% lower carbon emissions than traditional proteins and can absorb industrial waste gas, aligning with the trend of low-carbon agriculture. The EU and China have included microbial protein in their 14th Five-Year Plans, accelerating technology implementation through subsidies and tax incentives.

Demand for Efficiency Upgrading in Livestock Farming

The transformation of aquaculture and livestock farming towards intensive, high-density models increases the demand for high-quality feed protein. Single-cell protein has a high amino acid balance and excellent digestibility, reducing nitrogen and phosphorus pollution from animal excrement. Simultaneously, functional components (such as antimicrobial peptides) reduce disease risk, helping the livestock industry reduce costs and increase efficiency.

LP Information, Inc. (LPI) ' newest research report, the "Feed Single Cell Protein Industry Forecast" looks at past sales and reviews total world Feed Single Cell Protein sales in 2025, providing a comprehensive analysis by region and market sector of projected Feed Single Cell Protein sales for 2026 through 2032. With Feed Single Cell Protein sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Feed Single Cell Protein industry.

This Insight Report provides a comprehensive analysis of the global Feed Single Cell Protein landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Feed Single

Cell Protein portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Feed Single Cell Protein market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Feed Single Cell Protein and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Feed Single Cell Protein.

This report presents a comprehensive overview, market shares, and growth opportunities of Feed Single Cell Protein market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Traditional SCP

Emerging SCP

Segmentation by Technology:

Liquid Fermentation

Solid-State Fermentation

Segmentation by Functional Category:

General Type

Functional Type

Segmentation by Application:

Aquaculture

Livestock Feed

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Meihua Holdings Group

Lesaffre

Associated British Foods plc

Angel Yeast

Lallemand Animal Nutrition

Calysta

Shougang Lanzatech

Kiverdi

iCell Sustainable Nutrition

String Bio

Txy Biotech

Unibio

Tuopu Biology

Agri HongKe Bio-Technology

Titan Biotech

Changqing Biology

KnipBio

Key Questions Addressed in this Report

What is the 10-year outlook for the global Feed Single Cell Protein market?

What factors are driving Feed Single Cell Protein market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Feed Single Cell Protein market opportunities vary by end market size?

How does Feed Single Cell Protein break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Feed Single Cell Protein Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Feed Single Cell Protein by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Feed Single Cell Protein by Country/Region, 2021, 2025 & 2032
- 2.2 Feed Single Cell Protein Segment by Type
 - 2.2.1 Traditional SCP
 - 2.2.2 Emerging SCP
 - 2.2.3 Feed Single Cell Protein Sales by Type
 - 2.2.3.1 Global Feed Single Cell Protein Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Feed Single Cell Protein Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Feed Single Cell Protein Sale Price by Type (2021-2026)
- 2.3 Feed Single Cell Protein Segment by Technology
 - 2.3.1 Liquid Fermentation
 - 2.3.2 Solid-State Fermentation
 - 2.3.3 Feed Single Cell Protein Sales by Technology
 - 2.3.3.1 Global Feed Single Cell Protein Sales Market Share by Technology (2021-2026)
 - 2.3.3.2 Global Feed Single Cell Protein Revenue and Market Share by Technology (2021-2026)
 - 2.3.3.3 Global Feed Single Cell Protein Sale Price by Technology (2021-2026)
- 2.4 Feed Single Cell Protein Segment by Functional Category

- 2.4.1 General Type
- 2.4.2 Functional Type
- 2.4.3 Feed Single Cell Protein Sales by Functional Category
 - 2.4.3.1 Global Feed Single Cell Protein Sales Market Share by Functional Category (2021-2026)
 - 2.4.3.2 Global Feed Single Cell Protein Revenue and Market Share by Functional Category (2021-2026)
 - 2.4.3.3 Global Feed Single Cell Protein Sale Price by Functional Category (2021-2026)
- 2.5 Feed Single Cell Protein Segment by Application
 - 2.5.1 Aquaculture
 - 2.5.2 Livestock Feed
 - 2.5.3 Feed Single Cell Protein Sales by Application
 - 2.5.3.1 Global Feed Single Cell Protein Sale Market Share by Application (2021-2026)
 - 2.5.3.2 Global Feed Single Cell Protein Revenue and Market Share by Application (2021-2026)
 - 2.5.3.3 Global Feed Single Cell Protein Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Feed Single Cell Protein Breakdown Data by Company
 - 3.1.1 Global Feed Single Cell Protein Annual Sales by Company (2021-2026)
 - 3.1.2 Global Feed Single Cell Protein Sales Market Share by Company (2021-2026)
- 3.2 Global Feed Single Cell Protein Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Feed Single Cell Protein Revenue by Company (2021-2026)
 - 3.2.2 Global Feed Single Cell Protein Revenue Market Share by Company (2021-2026)
- 3.3 Global Feed Single Cell Protein Sale Price by Company
- 3.4 Key Manufacturers Feed Single Cell Protein Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Feed Single Cell Protein Product Location Distribution
 - 3.4.2 Players Feed Single Cell Protein Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FEED SINGLE CELL PROTEIN BY GEOGRAPHIC REGION

4.1 World Historic Feed Single Cell Protein Market Size by Geographic Region (2021-2026)

4.1.1 Global Feed Single Cell Protein Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Feed Single Cell Protein Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Feed Single Cell Protein Market Size by Country/Region (2021-2026)

4.2.1 Global Feed Single Cell Protein Annual Sales by Country/Region (2021-2026)

4.2.2 Global Feed Single Cell Protein Annual Revenue by Country/Region (2021-2026)

4.3 Americas Feed Single Cell Protein Sales Growth

4.4 APAC Feed Single Cell Protein Sales Growth

4.5 Europe Feed Single Cell Protein Sales Growth

4.6 Middle East & Africa Feed Single Cell Protein Sales Growth

5 AMERICAS

5.1 Americas Feed Single Cell Protein Sales by Country

5.1.1 Americas Feed Single Cell Protein Sales by Country (2021-2026)

5.1.2 Americas Feed Single Cell Protein Revenue by Country (2021-2026)

5.2 Americas Feed Single Cell Protein Sales by Type (2021-2026)

5.3 Americas Feed Single Cell Protein Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Feed Single Cell Protein Sales by Region

6.1.1 APAC Feed Single Cell Protein Sales by Region (2021-2026)

6.1.2 APAC Feed Single Cell Protein Revenue by Region (2021-2026)

6.2 APAC Feed Single Cell Protein Sales by Type (2021-2026)

6.3 APAC Feed Single Cell Protein Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Feed Single Cell Protein by Country

7.1.1 Europe Feed Single Cell Protein Sales by Country (2021-2026)

7.1.2 Europe Feed Single Cell Protein Revenue by Country (2021-2026)

7.2 Europe Feed Single Cell Protein Sales by Type (2021-2026)

7.3 Europe Feed Single Cell Protein Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Feed Single Cell Protein by Country

8.1.1 Middle East & Africa Feed Single Cell Protein Sales by Country (2021-2026)

8.1.2 Middle East & Africa Feed Single Cell Protein Revenue by Country (2021-2026)

8.2 Middle East & Africa Feed Single Cell Protein Sales by Type (2021-2026)

8.3 Middle East & Africa Feed Single Cell Protein Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Feed Single Cell Protein
- 10.3 Manufacturing Process Analysis of Feed Single Cell Protein
- 10.4 Industry Chain Structure of Feed Single Cell Protein

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Feed Single Cell Protein Distributors
- 11.3 Feed Single Cell Protein Customer

12 WORLD FORECAST REVIEW FOR FEED SINGLE CELL PROTEIN BY GEOGRAPHIC REGION

- 12.1 Global Feed Single Cell Protein Market Size Forecast by Region
 - 12.1.1 Global Feed Single Cell Protein Forecast by Region (2027-2032)
 - 12.1.2 Global Feed Single Cell Protein Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Feed Single Cell Protein Forecast by Type (2027-2032)
- 12.7 Global Feed Single Cell Protein Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Meihua Holdings Group
 - 13.1.1 Meihua Holdings Group Company Information
 - 13.1.2 Meihua Holdings Group Feed Single Cell Protein Product Portfolios and Specifications
 - 13.1.3 Meihua Holdings Group Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Meihua Holdings Group Main Business Overview
 - 13.1.5 Meihua Holdings Group Latest Developments
- 13.2 Lesaffre
 - 13.2.1 Lesaffre Company Information

- 13.2.2 Lesaffre Feed Single Cell Protein Product Portfolios and Specifications
- 13.2.3 Lesaffre Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Lesaffre Main Business Overview
- 13.2.5 Lesaffre Latest Developments
- 13.3 Associated British Foods plc
 - 13.3.1 Associated British Foods plc Company Information
 - 13.3.2 Associated British Foods plc Feed Single Cell Protein Product Portfolios and Specifications
 - 13.3.3 Associated British Foods plc Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Associated British Foods plc Main Business Overview
 - 13.3.5 Associated British Foods plc Latest Developments
- 13.4 Angel Yeast
 - 13.4.1 Angel Yeast Company Information
 - 13.4.2 Angel Yeast Feed Single Cell Protein Product Portfolios and Specifications
 - 13.4.3 Angel Yeast Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Angel Yeast Main Business Overview
 - 13.4.5 Angel Yeast Latest Developments
- 13.5 Lallemand Animal Nutrition
 - 13.5.1 Lallemand Animal Nutrition Company Information
 - 13.5.2 Lallemand Animal Nutrition Feed Single Cell Protein Product Portfolios and Specifications
 - 13.5.3 Lallemand Animal Nutrition Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Lallemand Animal Nutrition Main Business Overview
 - 13.5.5 Lallemand Animal Nutrition Latest Developments
- 13.6 Calysta
 - 13.6.1 Calysta Company Information
 - 13.6.2 Calysta Feed Single Cell Protein Product Portfolios and Specifications
 - 13.6.3 Calysta Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Calysta Main Business Overview
 - 13.6.5 Calysta Latest Developments
- 13.7 Shougang Lanzatech
 - 13.7.1 Shougang Lanzatech Company Information
 - 13.7.2 Shougang Lanzatech Feed Single Cell Protein Product Portfolios and Specifications

13.7.3 Shougang Lanzatech Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shougang Lanzatech Main Business Overview

13.7.5 Shougang Lanzatech Latest Developments

13.8 Kiverdi

13.8.1 Kiverdi Company Information

13.8.2 Kiverdi Feed Single Cell Protein Product Portfolios and Specifications

13.8.3 Kiverdi Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Kiverdi Main Business Overview

13.8.5 Kiverdi Latest Developments

13.9 iCell Sustainable Nutrition

13.9.1 iCell Sustainable Nutrition Company Information

13.9.2 iCell Sustainable Nutrition Feed Single Cell Protein Product Portfolios and Specifications

13.9.3 iCell Sustainable Nutrition Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 iCell Sustainable Nutrition Main Business Overview

13.9.5 iCell Sustainable Nutrition Latest Developments

13.10 String Bio

13.10.1 String Bio Company Information

13.10.2 String Bio Feed Single Cell Protein Product Portfolios and Specifications

13.10.3 String Bio Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 String Bio Main Business Overview

13.10.5 String Bio Latest Developments

13.11 Txy Biotech

13.11.1 Txy Biotech Company Information

13.11.2 Txy Biotech Feed Single Cell Protein Product Portfolios and Specifications

13.11.3 Txy Biotech Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Txy Biotech Main Business Overview

13.11.5 Txy Biotech Latest Developments

13.12 Unibio

13.12.1 Unibio Company Information

13.12.2 Unibio Feed Single Cell Protein Product Portfolios and Specifications

13.12.3 Unibio Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Unibio Main Business Overview

- 13.12.5 Unibio Latest Developments
- 13.13 Tuopu Biology
 - 13.13.1 Tuopu Biology Company Information
 - 13.13.2 Tuopu Biology Feed Single Cell Protein Product Portfolios and Specifications
 - 13.13.3 Tuopu Biology Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Tuopu Biology Main Business Overview
 - 13.13.5 Tuopu Biology Latest Developments
- 13.14 Agri HongKe Bio-Technology
 - 13.14.1 Agri HongKe Bio-Technology Company Information
 - 13.14.2 Agri HongKe Bio-Technology Feed Single Cell Protein Product Portfolios and Specifications
 - 13.14.3 Agri HongKe Bio-Technology Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Agri HongKe Bio-Technology Main Business Overview
 - 13.14.5 Agri HongKe Bio-Technology Latest Developments
- 13.15 Titan Biotech
 - 13.15.1 Titan Biotech Company Information
 - 13.15.2 Titan Biotech Feed Single Cell Protein Product Portfolios and Specifications
 - 13.15.3 Titan Biotech Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Titan Biotech Main Business Overview
 - 13.15.5 Titan Biotech Latest Developments
- 13.16 Changqing Biology
 - 13.16.1 Changqing Biology Company Information
 - 13.16.2 Changqing Biology Feed Single Cell Protein Product Portfolios and Specifications
 - 13.16.3 Changqing Biology Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Changqing Biology Main Business Overview
 - 13.16.5 Changqing Biology Latest Developments
- 13.17 KnipBio
 - 13.17.1 KnipBio Company Information
 - 13.17.2 KnipBio Feed Single Cell Protein Product Portfolios and Specifications
 - 13.17.3 KnipBio Feed Single Cell Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 KnipBio Main Business Overview
 - 13.17.5 KnipBio Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Feed Single Cell Protein Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Feed Single Cell Protein Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Traditional SCP

Table 4. Major Players of Emerging SCP

Table 5. Global Feed Single Cell Protein Sales by Type (2021-2026) & (Kilotons)

Table 6. Global Feed Single Cell Protein Sales Market Share by Type (2021-2026)

Table 7. Global Feed Single Cell Protein Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Feed Single Cell Protein Revenue Market Share by Type (2021-2026)

Table 9. Global Feed Single Cell Protein Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Liquid Fermentation

Table 11. Major Players of Solid-State Fermentation

Table 12. Global Feed Single Cell Protein Sales by Technology (2021-2026) & (Kilotons)

Table 13. Global Feed Single Cell Protein Sales Market Share by Technology (2021-2026)

Table 14. Global Feed Single Cell Protein Revenue by Technology (2021-2026) & (\$ million)

Table 15. Global Feed Single Cell Protein Revenue Market Share by Technology (2021-2026)

Table 16. Global Feed Single Cell Protein Sale Price by Technology (2021-2026) & (US\$/Ton)

Table 17. Major Players of General Type

Table 18. Major Players of Functional Type

Table 19. Global Feed Single Cell Protein Sales by Functional Category (2021-2026) & (Kilotons)

Table 20. Global Feed Single Cell Protein Sales Market Share by Functional Category (2021-2026)

Table 21. Global Feed Single Cell Protein Revenue by Functional Category (2021-2026) & (\$ million)

Table 22. Global Feed Single Cell Protein Revenue Market Share by Functional Category (2021-2026)

Table 23. Global Feed Single Cell Protein Sale Price by Functional Category (2021-2026) & (US\$/Ton)

Table 24. Global Feed Single Cell Protein Sale by Application (2021-2026) & (Kilotons)

Table 25. Global Feed Single Cell Protein Sale Market Share by Application (2021-2026)

Table 26. Global Feed Single Cell Protein Revenue by Application (2021-2026) & (\$ million)

Table 27. Global Feed Single Cell Protein Revenue Market Share by Application (2021-2026)

Table 28. Global Feed Single Cell Protein Sale Price by Application (2021-2026) & (US\$/Ton)

Table 29. Global Feed Single Cell Protein Sales by Company (2021-2026) & (Kilotons)

Table 30. Global Feed Single Cell Protein Sales Market Share by Company (2021-2026)

Table 31. Global Feed Single Cell Protein Revenue by Company (2021-2026) & (\$ millions)

Table 32. Global Feed Single Cell Protein Revenue Market Share by Company (2021-2026)

Table 33. Global Feed Single Cell Protein Sale Price by Company (2021-2026) & (US\$/Ton)

Table 34. Key Manufacturers Feed Single Cell Protein Producing Area Distribution and Sales Area

Table 35. Players Feed Single Cell Protein Products Offered

Table 36. Feed Single Cell Protein Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Market M&A Activity & Strategy

Table 39. Global Feed Single Cell Protein Sales by Geographic Region (2021-2026) & (Kilotons)

Table 40. Global Feed Single Cell Protein Sales Market Share Geographic Region (2021-2026)

Table 41. Global Feed Single Cell Protein Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 42. Global Feed Single Cell Protein Revenue Market Share by Geographic Region (2021-2026)

Table 43. Global Feed Single Cell Protein Sales by Country/Region (2021-2026) & (Kilotons)

Table 44. Global Feed Single Cell Protein Sales Market Share by Country/Region (2021-2026)

Table 45. Global Feed Single Cell Protein Revenue by Country/Region (2021-2026) & (\$ millions)

Table 46. Global Feed Single Cell Protein Revenue Market Share by Country/Region (2021-2026)

Table 47. Americas Feed Single Cell Protein Sales by Country (2021-2026) & (Kilotons)

Table 48. Americas Feed Single Cell Protein Sales Market Share by Country (2021-2026)

Table 49. Americas Feed Single Cell Protein Revenue by Country (2021-2026) & (\$ millions)

Table 50. Americas Feed Single Cell Protein Sales by Type (2021-2026) & (Kilotons)

Table 51. Americas Feed Single Cell Protein Sales by Application (2021-2026) & (Kilotons)

Table 52. APAC Feed Single Cell Protein Sales by Region (2021-2026) & (Kilotons)

Table 53. APAC Feed Single Cell Protein Sales Market Share by Region (2021-2026)

Table 54. APAC Feed Single Cell Protein Revenue by Region (2021-2026) & (\$ millions)

Table 55. APAC Feed Single Cell Protein Sales by Type (2021-2026) & (Kilotons)

Table 56. APAC Feed Single Cell Protein Sales by Application (2021-2026) & (Kilotons)

Table 57. Europe Feed Single Cell Protein Sales by Country (2021-2026) & (Kilotons)

Table 58. Europe Feed Single Cell Protein Revenue by Country (2021-2026) & (\$ millions)

Table 59. Europe Feed Single Cell Protein Sales by Type (2021-2026) & (Kilotons)

Table 60. Europe Feed Single Cell Protein Sales by Application (2021-2026) & (Kilotons)

Table 61. Middle East & Africa Feed Single Cell Protein Sales by Country (2021-2026) & (Kilotons)

Table 62. Middle East & Africa Feed Single Cell Protein Revenue Market Share by Country (2021-2026)

Table 63. Middle East & Africa Feed Single Cell Protein Sales by Type (2021-2026) & (Kilotons)

Table 64. Middle East & Africa Feed Single Cell Protein Sales by Application (2021-2026) & (Kilotons)

Table 65. Key Market Drivers & Growth Opportunities of Feed Single Cell Protein

Table 66. Key Market Challenges & Risks of Feed Single Cell Protein

Table 67. Key Industry Trends of Feed Single Cell Protein

Table 68. Feed Single Cell Protein Raw Material

Table 69. Key Suppliers of Raw Materials

Table 70. Feed Single Cell Protein Distributors List

Table 71. Feed Single Cell Protein Customer List

Table 72. Global Feed Single Cell Protein Sales Forecast by Region (2027-2032) & (Kilotons)

Table 73. Global Feed Single Cell Protein Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Americas Feed Single Cell Protein Sales Forecast by Country (2027-2032) & (Kilotons)

Table 75. Americas Feed Single Cell Protein Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. APAC Feed Single Cell Protein Sales Forecast by Region (2027-2032) & (Kilotons)

Table 77. APAC Feed Single Cell Protein Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Europe Feed Single Cell Protein Sales Forecast by Country (2027-2032) & (Kilotons)

Table 79. Europe Feed Single Cell Protein Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. Middle East & Africa Feed Single Cell Protein Sales Forecast by Country (2027-2032) & (Kilotons)

Table 81. Middle East & Africa Feed Single Cell Protein Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Global Feed Single Cell Protein Sales Forecast by Type (2027-2032) & (Kilotons)

Table 83. Global Feed Single Cell Protein Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 84. Global Feed Single Cell Protein Sales Forecast by Application (2027-2032) & (Kilotons)

Table 85. Global Feed Single Cell Protein Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 86. Meihua Holdings Group Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 87. Meihua Holdings Group Feed Single Cell Protein Product Portfolios and Specifications

Table 88. Meihua Holdings Group Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 89. Meihua Holdings Group Main Business

Table 90. Meihua Holdings Group Latest Developments

Table 91. Lesaffre Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 92. Lesaffre Feed Single Cell Protein Product Portfolios and Specifications

Table 93. Lesaffre Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 94. Lesaffre Main Business

Table 95. Lesaffre Latest Developments

Table 96. Associated British Foods plc Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 97. Associated British Foods plc Feed Single Cell Protein Product Portfolios and Specifications

Table 98. Associated British Foods plc Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 99. Associated British Foods plc Main Business

Table 100. Associated British Foods plc Latest Developments

Table 101. Angel Yeast Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 102. Angel Yeast Feed Single Cell Protein Product Portfolios and Specifications

Table 103. Angel Yeast Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 104. Angel Yeast Main Business

Table 105. Angel Yeast Latest Developments

Table 106. Lallemand Animal Nutrition Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 107. Lallemand Animal Nutrition Feed Single Cell Protein Product Portfolios and Specifications

Table 108. Lallemand Animal Nutrition Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 109. Lallemand Animal Nutrition Main Business

Table 110. Lallemand Animal Nutrition Latest Developments

Table 111. Calysta Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 112. Calysta Feed Single Cell Protein Product Portfolios and Specifications

Table 113. Calysta Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 114. Calysta Main Business

Table 115. Calysta Latest Developments

Table 116. Shougang Lanzatech Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 117. Shougang Lanzatech Feed Single Cell Protein Product Portfolios and Specifications

Table 118. Shougang Lanzatech Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 119. Shougang Lanzatech Main Business

Table 120. Shougang Lanzatech Latest Developments
Table 121. Kiverdi Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors
Table 122. Kiverdi Feed Single Cell Protein Product Portfolios and Specifications
Table 123. Kiverdi Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 124. Kiverdi Main Business
Table 125. Kiverdi Latest Developments
Table 126. iCell Sustainable Nutrition Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors
Table 127. iCell Sustainable Nutrition Feed Single Cell Protein Product Portfolios and Specifications
Table 128. iCell Sustainable Nutrition Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 129. iCell Sustainable Nutrition Main Business
Table 130. iCell Sustainable Nutrition Latest Developments
Table 131. String Bio Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors
Table 132. String Bio Feed Single Cell Protein Product Portfolios and Specifications
Table 133. String Bio Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 134. String Bio Main Business
Table 135. String Bio Latest Developments
Table 136. Txy Biotech Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors
Table 137. Txy Biotech Feed Single Cell Protein Product Portfolios and Specifications
Table 138. Txy Biotech Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 139. Txy Biotech Main Business
Table 140. Txy Biotech Latest Developments
Table 141. Unibio Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors
Table 142. Unibio Feed Single Cell Protein Product Portfolios and Specifications
Table 143. Unibio Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 144. Unibio Main Business
Table 145. Unibio Latest Developments
Table 146. Tuopu Biology Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 147. Tuopu Biology Feed Single Cell Protein Product Portfolios and Specifications

Table 148. Tuopu Biology Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 149. Tuopu Biology Main Business

Table 150. Tuopu Biology Latest Developments

Table 151. Agri HongKe Bio-Technology Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 152. Agri HongKe Bio-Technology Feed Single Cell Protein Product Portfolios and Specifications

Table 153. Agri HongKe Bio-Technology Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 154. Agri HongKe Bio-Technology Main Business

Table 155. Agri HongKe Bio-Technology Latest Developments

Table 156. Titan Biotech Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 157. Titan Biotech Feed Single Cell Protein Product Portfolios and Specifications

Table 158. Titan Biotech Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 159. Titan Biotech Main Business

Table 160. Titan Biotech Latest Developments

Table 161. Changqing Biology Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 162. Changqing Biology Feed Single Cell Protein Product Portfolios and Specifications

Table 163. Changqing Biology Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 164. Changqing Biology Main Business

Table 165. Changqing Biology Latest Developments

Table 166. KnipBio Basic Information, Feed Single Cell Protein Manufacturing Base, Sales Area and Its Competitors

Table 167. KnipBio Feed Single Cell Protein Product Portfolios and Specifications

Table 168. KnipBio Feed Single Cell Protein Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 169. KnipBio Main Business

Table 170. KnipBio Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Feed Single Cell Protein
- Figure 2. Feed Single Cell Protein Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Feed Single Cell Protein Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Feed Single Cell Protein Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Feed Single Cell Protein Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Feed Single Cell Protein Sales Market Share by Country/Region (2025)
- Figure 10. Feed Single Cell Protein Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Traditional SCP
- Figure 12. Product Picture of Emerging SCP
- Figure 13. Global Feed Single Cell Protein Sales Market Share by Type in 2026
- Figure 14. Global Feed Single Cell Protein Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Liquid Fermentation
- Figure 16. Product Picture of Solid-State Fermentation
- Figure 17. Global Feed Single Cell Protein Sales Market Share by Technology in 2026
- Figure 18. Global Feed Single Cell Protein Revenue Market Share by Technology (2021-2026)
- Figure 19. Product Picture of General Type
- Figure 20. Product Picture of Functional Type
- Figure 21. Global Feed Single Cell Protein Sales Market Share by Functional Category in 2026
- Figure 22. Global Feed Single Cell Protein Revenue Market Share by Functional Category (2021-2026)
- Figure 23. Feed Single Cell Protein Consumed in Aquaculture
- Figure 24. Global Feed Single Cell Protein Market: Aquaculture (2021-2026) & (Kilotons)
- Figure 25. Feed Single Cell Protein Consumed in Livestock Feed
- Figure 26. Global Feed Single Cell Protein Market: Livestock Feed (2021-2026) & (Kilotons)
- Figure 27. Global Feed Single Cell Protein Sale Market Share by Application (2025)
- Figure 28. Global Feed Single Cell Protein Revenue Market Share by Application in

2025

Figure 29. Feed Single Cell Protein Sales by Company in 2025 (Kilotons)

Figure 30. Global Feed Single Cell Protein Sales Market Share by Company in 2025

Figure 31. Feed Single Cell Protein Revenue by Company in 2025 (\$ millions)

Figure 32. Global Feed Single Cell Protein Revenue Market Share by Company in 2025

Figure 33. Global Feed Single Cell Protein Sales Market Share by Geographic Region (2021-2026)

Figure 34. Global Feed Single Cell Protein Revenue Market Share by Geographic Region in 2025

Figure 35. Americas Feed Single Cell Protein Sales 2021-2026 (Kilotons)

Figure 36. Americas Feed Single Cell Protein Revenue 2021-2026 (\$ millions)

Figure 37. APAC Feed Single Cell Protein Sales 2021-2026 (Kilotons)

Figure 38. APAC Feed Single Cell Protein Revenue 2021-2026 (\$ millions)

Figure 39. Europe Feed Single Cell Protein Sales 2021-2026 (Kilotons)

Figure 40. Europe Feed Single Cell Protein Revenue 2021-2026 (\$ millions)

Figure 41. Middle East & Africa Feed Single Cell Protein Sales 2021-2026 (Kilotons)

Figure 42. Middle East & Africa Feed Single Cell Protein Revenue 2021-2026 (\$ millions)

Figure 43. Americas Feed Single Cell Protein Sales Market Share by Country in 2025

Figure 44. Americas Feed Single Cell Protein Revenue Market Share by Country (2021-2026)

Figure 45. Americas Feed Single Cell Protein Sales Market Share by Type (2021-2026)

Figure 46. Americas Feed Single Cell Protein Sales Market Share by Application (2021-2026)

Figure 47. United States Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 48. Canada Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 49. Mexico Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 50. Brazil Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 51. APAC Feed Single Cell Protein Sales Market Share by Region in 2025

Figure 52. APAC Feed Single Cell Protein Revenue Market Share by Region (2021-2026)

Figure 53. APAC Feed Single Cell Protein Sales Market Share by Type (2021-2026)

Figure 54. APAC Feed Single Cell Protein Sales Market Share by Application (2021-2026)

Figure 55. China Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 56. Japan Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 57. South Korea Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 58. Southeast Asia Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 59. India Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 60. Australia Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 61. China Taiwan Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 62. Europe Feed Single Cell Protein Sales Market Share by Country in 2025

Figure 63. Europe Feed Single Cell Protein Revenue Market Share by Country (2021-2026)

Figure 64. Europe Feed Single Cell Protein Sales Market Share by Type (2021-2026)

Figure 65. Europe Feed Single Cell Protein Sales Market Share by Application (2021-2026)

Figure 66. Germany Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 67. France Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 68. UK Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 69. Italy Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 70. Russia Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 71. Middle East & Africa Feed Single Cell Protein Sales Market Share by Country (2021-2026)

Figure 72. Middle East & Africa Feed Single Cell Protein Sales Market Share by Type (2021-2026)

Figure 73. Middle East & Africa Feed Single Cell Protein Sales Market Share by Application (2021-2026)

Figure 74. Egypt Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 75. South Africa Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 76. Israel Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 77. Turkey Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 78. GCC Countries Feed Single Cell Protein Revenue Growth 2021-2026 (\$ millions)

Figure 79. Manufacturing Cost Structure Analysis of Feed Single Cell Protein in 2026

Figure 80. Manufacturing Process Analysis of Feed Single Cell Protein

Figure 81. Industry Chain Structure of Feed Single Cell Protein

Figure 82. Channels of Distribution

Figure 83. Global Feed Single Cell Protein Sales Market Forecast by Region (2027-2032)

Figure 84. Global Feed Single Cell Protein Revenue Market Share Forecast by Region (2027-2032)

Figure 85. Global Feed Single Cell Protein Sales Market Share Forecast by Type

(2027-2032)

Figure 86. Global Feed Single Cell Protein Revenue Market Share Forecast by Type

(2027-2032)

Figure 87. Global Feed Single Cell Protein Sales Market Share Forecast by Application

(2027-2032)

Figure 88. Global Feed Single Cell Protein Revenue Market Share Forecast by

Application (2027-2032)

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