

Global Feed Single Cell Protein Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Feed Single Cell Protein market size is expected to reach \$ 845 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Feed Single Cell Protein production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Feed Single Cell 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 Feed Single Cell Protein that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Feed Single Cell Protein total production and demand, 2021-2032, (Kilotons)
Global Feed Single Cell Protein total production value, 2021-2032, (USD Million)
Global Feed Single Cell Protein production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Feed Single Cell Protein consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Feed Single Cell Protein domestic production, consumption, key domestic manufacturers and share

Global Feed Single Cell Protein production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Feed Single Cell Protein production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Feed Single Cell Protein production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Feed Single Cell 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 Meihua Holdings Group, Lesaffre, Associated British Foods plc, Angel Yeast, Lallemand Animal Nutrition, Calysta, Shougang Lanzatech, Kiverdi, iCell Sustainable Nutrition, 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 Feed Single Cell Protein market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Feed Single Cell Protein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Feed Single Cell Protein Market, Segmentation by Type:

Traditional SCP

Emerging SCP

Global Feed Single Cell Protein Market, Segmentation by Technology:

Liquid Fermentation

Solid-State Fermentation

Global Feed Single Cell Protein Market, Segmentation by Functional Category:

General Type

Functional Type

Global Feed Single Cell Protein Market, Segmentation by Application:

Aquaculture

Livestock Feed

Companies Profiled:

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 Answered:

1. How big is the global Feed Single Cell Protein market?

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

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