

# Global Gas Fermentation Protein Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gas Fermentation 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).

Gas Fermentation Protein refers to protein ingredients produced by microorganisms using gases such as hydrogen, carbon dioxide, carbon monoxide, or methane as carbon or energy sources through fermentation. The technology can convert industrial off-gases, syngas, biogas, or carbon sources from air into microbial protein, with applications in food ingredients, animal feed, aquafeed, and alternative protein products. Compared with conventional plant-based or animal-derived proteins, gas fermentation protein offers advantages such as lower land use, shorter production cycles, and stronger sustainability potential. In 2025, global Gas Fermentation Protein production reached approximately 1366 tons, with an average global market price of around US\$8200 per ton. The production capacity for Gas Fermentation Protein in 2025 was approximately 2000 tons. The typical gross profit margin for Gas Fermentation Protein is between 20% and 40%.

The gas fermentation protein market refers to the production of proteins, amino acids and related nutritional ingredients through microbial fermentation using gases such as carbon monoxide, carbon dioxide, methane and hydrogen as carbon or energy sources. The market is driven by the growing demand for sustainable food, alternative proteins, carbon reduction and circular resource utilization, with applications in meat alternatives, animal feed, aquafeed, pet food and functional nutrition. Compared with conventional plant-based and animal-derived proteins, gas fermentation protein offers advantages such as lower land dependence, reduced water consumption, shorter production cycles and the potential use of industrial off-gases or renewable gases. However, the market

still faces challenges related to scale-up costs, food regulatory approval, consumer acceptance and process stability in large-scale fermentation. Overall, with advances in synthetic biology, low-carbon food systems and increasing participation from food and feed companies, the gas fermentation protein market is expected to move gradually from pilot-scale demonstration toward broader commercialization.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Gas Fermentation 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 Gas Fermentation 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 Gas Fermentation Protein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gas Fermentation Protein Market, Segmentation by Type:

CO<sub>2</sub>-based Air Protein

Methane-based Gas Protein

Other

## Global Gas Fermentation Protein Market, Segmentation Production Technology:

Gas Fermentation Protein

Hydrogen-oxidizing Bacteria Fermentation Protein

Methanotroph Fermentation Protein

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

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