

Global Precision-Fermented Casein Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Precision-Fermented Casein market size is expected to reach \$ 301 million by 2032, rising at a market growth of 36.1% CAGR during the forecast period (2026-2032).

Precision-fermented casein is a milk protein ingredient produced by engineered microbes such as yeast or bacteria that have been genetically modified to express bovine casein genes. During fermentation, α S1, α S2, β , κ caseins, or their combinations are expressed, followed by separation, purification, blending, and drying. The estimated overall gross margin is approximately 48%.

In 2025, precision-fermented casein remains in the early commercial stage. Market volume is mainly composed of pilot-scale sales by a few animal-free dairy companies, co-branded validation, and B2B formulation trials. Compared with precision-fermented whey protein, casein's end-use value is more concentrated in cheese, yogurt, milk-based gels, and emulsified systems. Its core selling point is not simply protein supplementation, but replicating the functional properties of casein micelles such as stretch, gelation, emulsification, and heat stability. Current market expansion depends on fermentation cost, purification cost, regulatory approval, and the scale-up of cheese-type products.

After 2026, companies like New Culture, Standing Ovation, Formo, and Those Vegan Cowboys are expected to advance commercial production of animal-free cheese and casein ingredients, transitioning the market from small-batch validation to regional supply. Given casein's functional barriers in cheese, and its compatibility with plant fats, starches, colloids, and fermentation flavor systems, unit value and customer stickiness are expected to be higher than general plant-based proteins, though short-

term pricing competitiveness against bulk dairy casein remains limited.

Future growth is driven by three main demand sources: 1) animal-free cheese brands seeking improved stretch and melt functionality; 2) food companies pursuing long-term deployment of animal-free, lactose-free, and low-carbon protein ingredients; and 3) precision fermentation companies shifting from single-protein expression to composite milk protein systems and technology licensing. Overall, precision-fermented casein is not a rapid substitute for bulk milk protein, but a high-barrier protein ingredient targeting premium cheese, functional dairy, and sustainable food formulations, with a small short-term market yet high growth potential.

This report studies the global Precision-Fermented Casein production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Precision-Fermented Casein 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 Precision-Fermented Casein that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Precision-Fermented Casein total production and demand, 2021-2032, (kg)

Global Precision-Fermented Casein total production value, 2021-2032, (USD Million)

Global Precision-Fermented Casein production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Precision-Fermented Casein consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Precision-Fermented Casein domestic production, consumption, key domestic manufacturers and share

Global Precision-Fermented Casein production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Precision-Fermented Casein production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Precision-Fermented Casein production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Precision-Fermented Casein 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 New Culture, Standing Ovation, Formo, Those Vegan Cowboys, Fooditive, Eden Brew, Change Foods, Fermify, Imagindairy, 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 Precision-Fermented Casein market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Precision-Fermented Casein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Precision-Fermented Casein Market, Segmentation by Type:

Whole Casein Mixture

Alpha-S1 Casein

Alpha-S2 Casein

Beta Casein

Kappa Casein

Other Casein Fractions

Global Precision-Fermented Casein Market, Segmentation by Production Host:

Yeast-Based Casein

Fungal-Based Casein

Bacterial-Based Casein

Other Microbial Host Casein

Undisclosed Host Casein

Global Precision-Fermented Casein Market, Segmentation by Supply Readiness:

Commercial Supply

Pilot and Demonstration Supply

Regulatory Submission Stage

R&D Evaluation Stage

Other Supply Readiness

Global Precision-Fermented Casein Market, Segmentation by Application:

Cheese and Cheese Analogs

Animal-Free Dairy Products

Creams and Foams

Frozen Desserts

Nutritional Beverages

Sports and Functional Nutrition

Chocolate and Bakery

Companies Profiled:

New Culture

Standing Ovation

Formo

Those Vegan Cowboys

Fooditive

Eden Brew

Change Foods

Fermify

Imagindairy

Key Questions Answered:

1. How big is the global Precision-Fermented Casein market?
2. What is the demand of the global Precision-Fermented Casein market?

3. What is the year over year growth of the global Precision-Fermented Casein market?
4. What is the production and production value of the global Precision-Fermented Casein market?
5. Who are the key producers in the global Precision-Fermented Casein market?
6. What are the growth factors driving the market demand?

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