

Global Precision Fermentation Beta-Lactoglobulin Market Growth 2026-2032

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Abstracts

The global Precision Fermentation Beta-Lactoglobulin market size is predicted to grow from US\$ 93.91 million in 2025 to US\$ 824 million in 2032; it is expected to grow at a CAGR of 32.2% from 2026 to 2032.

Precision-fermented β -lactoglobulin is a recombinant major whey protein produced using microbial expression systems such as yeast or filamentous fungi. After fermentation, separation, purification, and drying, it is supplied as a food-grade protein ingredient. The product can be used in sports nutrition, clear protein beverages, animal-free dairy products, egg replacement in baking, and high-protein desserts. It features an amino acid profile close to dairy-derived whey, no lactose, stable supply, and easier functional formulation design. The estimated overall gross margin is approximately 45%.

In 2025, this market is still in the early stage of commercial scale-up, with revenue mainly coming from a small number of companies that have obtained U.S. GRAS or equivalent regulatory recognition, co-branded products, and B2B trial orders. Perfect Day, Remilk, Imagindairy, Vivici, and others have already positioned BLG as the core commercial target of precision-fermented whey protein, while Verley, 21st.BIO, and Daisy Lab are expanding supply through functionalization, technology licensing, or pilot-scale production. Since downstream brands place greater emphasis on lactose-free positioning, high protein content, taste, and stable supply, this product is not a full short-term replacement for bulk whey protein, but will first enter premium applications such as high-protein beverages, sports nutrition, animal-free dairy products, and functional baking ingredients.

After 2026, growth will mainly be driven by expanded regulatory access, lower fermentation costs, and more mature downstream formulations. Compared with ordinary

whey protein, BLG is better suited to clear beverages, heat-stable milk drinks, and high-protein low-fat structures, supporting higher unit prices. However, the industry is still constrained by fermentation capacity, downstream purification costs, milk allergen labeling, and approval progress in markets such as the EU.

As leading companies move from sample supply to long-term delivery, the market will shift from concept validation to competition centered on cost, functionality, and customer stickiness.

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

This Insight Report provides a comprehensive analysis of the global Precision Fermentation Beta-Lactoglobulin 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 Precision Fermentation Beta-Lactoglobulin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Precision Fermentation Beta-Lactoglobulin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Precision Fermentation Beta-Lactoglobulin 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 Precision Fermentation Beta-Lactoglobulin.

This report presents a comprehensive overview, market shares, and growth opportunities of Precision Fermentation Beta-Lactoglobulin market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Native BLG Isolate

Functionalized BLG Ingredient

BLG-Based Premix

Fermented Whey Protein Blend

Other Product Format

Segmentation by Host System:

Yeast-Derived BLG

Trichoderma-Derived BLG

Aspergillus-Derived BLG

Other Microbial-Derived BLG

Segmentation by Protein Specification:

≥90% Protein Isolate Grade

80%-89% Protein Ingredient Grade

60%-79% Protein Ingredient Grade

Formulated Premix Grade

Other Specification Grade

Segmentation by Application:

Active Nutrition Powders

Clear Protein Beverages

Ready-to-Drink Protein Beverages

Dairy-Free Milk and Yogurt

High-Protein Dairy Desserts

Bakery and Egg Replacement

Confectionery and Cream Applications

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.

Perfect Day

Remilk

ImaginDairy

Vivici

Verley

Daisy Lab

21st.BIO

Key Questions Addressed in this Report

What is the 10-year outlook for the global Precision Fermentation Beta-Lactoglobulin market?

What factors are driving Precision Fermentation Beta-Lactoglobulin market growth, globally and by region?

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

How do Precision Fermentation Beta-Lactoglobulin market opportunities vary by end market size?

How does Precision Fermentation Beta-Lactoglobulin break out by Type, by Application?

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