

Global Precision Fermentation Beta-Lactoglobulin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Precision Fermentation Beta-Lactoglobulin market size was valued at US\$ 99 million in 2025 and is forecast to a readjusted size of US\$ 795 million by 2032 with a CAGR of 30.3% during review period.

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.

This report is a detailed and comprehensive analysis for global Precision Fermentation Beta-Lactoglobulin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Precision Fermentation Beta-Lactoglobulin market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Precision Fermentation Beta-Lactoglobulin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Precision Fermentation Beta-Lactoglobulin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Precision Fermentation Beta-Lactoglobulin market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Precision Fermentation Beta-Lactoglobulin

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Precision Fermentation Beta-Lactoglobulin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Perfect Day, Remilk, ImaginDairy, Vivici, Verley, Daisy Lab, 21st.BIO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Precision Fermentation Beta-Lactoglobulin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Native BLG Isolate

Functionalized BLG Ingredient

BLG-Based Premix

Fermented Whey Protein Blend

Other Product Format

Market segment by Host System

Yeast-Derived BLG

Trichoderma-Derived BLG

Aspergillus-Derived BLG

Other Microbial-Derived BLG

Market segment by Protein Specification

≥90% Protein Isolate Grade

80%-89% Protein Ingredient Grade

60%-79% Protein Ingredient Grade

Formulated Premix Grade

Other Specification Grade

Market segment 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

Major players covered

Perfect Day

Remilk

ImaginDairy

Vivici

Verley

Daisy Lab

21st.BIO

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Precision Fermentation Beta-Lactoglobulin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Precision Fermentation Beta-Lactoglobulin, with price, sales quantity, revenue, and global market share of Precision Fermentation Beta-Lactoglobulin from 2021 to 2026.

Chapter 3, the Precision Fermentation Beta-Lactoglobulin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Precision Fermentation Beta-Lactoglobulin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Precision Fermentation Beta-Lactoglobulin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Precision Fermentation Beta-Lactoglobulin.

Chapter 14 and 15, to describe Precision Fermentation Beta-Lactoglobulin sales channel, distributors, customers, research findings and conclusion.

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