

# Global Cell-free Protein Synthesis Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G48DDAC4D39CEN.html>

Date: April 2026

Pages: 113

Price: US\$ 4,480.00 (Single User License)

ID: G48DDAC4D39CEN

## Abstracts

The global Cell-free Protein Synthesis market size is expected to reach \$ 304 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Cell-free protein synthesis is an in vitro protein production technology. This technology overcomes the limitations of traditional live cell culture by lysing cells to extract crude extracts containing ribosomes, polymerases, and translation factors, and supplementing these with substrates such as amino acids and energy substances to construct an in vitro protein synthesis system. Users only need to add a linear or circular DNA template to rapidly and controllably express the target protein. Its core advantages lie in its ability to express cytotoxic proteins, introduce non-natural amino acids, achieve high-throughput screening, and significantly shorten the synthesis cycle. It is widely used in structural biology, synthetic biology, and the development of clinical diagnostic reagents.

The global cell-free protein synthesis market is characterized by a three-way competition between the US, Asia, and Europe. North America, leveraging its early start, boasts several leading companies with core technologies, focusing on high-value-added applications such as high-throughput screening and membrane protein synthesis, and deeply integrating into synthetic biology automation platforms. Europe emphasizes the development of industrial enzymes and basic research tools, drawing on its strong foundation in structural biology and possessing unique strengths in radiolabeling and complex post-translational modification systems. Asia, represented by China and Japan, is experiencing rapid development, driving adoption in the education and research market through cost advantages, and accelerating its progress in point-of-care testing applications such as lyophilized formulations and portable biosensors.

This report studies the global Cell-free Protein Synthesis demand, key companies, and key regions.

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

### **Highlights and key features of the study**

Global Cell-free Protein Synthesis total market, 2021-2032, (USD Million)

Global Cell-free Protein Synthesis total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Cell-free Protein Synthesis total market, key domestic companies, and share, (USD Million)

Global Cell-free Protein Synthesis revenue by player, revenue and market share 2021-2026, (USD Million)

Global Cell-free Protein Synthesis total market by Type, CAGR, 2021-2032, (USD Million)

Global Cell-free Protein Synthesis total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Cell-free Protein Synthesis market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific Inc., New England Biolabs, Inc., Promega Corporation, Takara Bio Inc., CellFree Sciences Co., Ltd., LenioBio GmbH, Nuclera Ltd., Synthelis SAS, Profacgen, GeneCopoeia, Inc., 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 Cell-free Protein Synthesis market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Cell-free Protein Synthesis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Cell-free Protein Synthesis Market, Segmentation by Type:

E.Coli Cell-Free Protein Synthesis

Rabbit Reticulocytes Cell-Free Protein Synthesis

Wheat Germ Cell-Free Protein Synthesis

Insect Cells Cell-Free Protein Synthesis

Mammalian Cell-Free Protein Synthesis

Others

Global Cell-free Protein Synthesis Market, Segmentation by Speed:

Batch Synthesis

Continuous Exchange/Dialysis Synthesis

Continuous Flow Synthesis

Global Cell-free Protein Synthesis Market, Segmentation by Purpose:

High-Throughput Screening

Synthesis of Toxic/Difficult-to-Express Proteins

Incorporation of Non-natural Amino Acids

Others

Global Cell-free Protein Synthesis Market, Segmentation by Application:

Pharmaceutical Companies

Academic/Research Institutes

Others

Companies Profiled:

Thermo Fisher Scientific Inc.

New England Biolabs, Inc.

Promega Corporation

Takara Bio Inc.

CellFree Sciences Co., Ltd.

LenioBio GmbH

Nuclera Ltd.

Synthelis SAS

Profacgen

GeneCopoeia, Inc.

Bioneer Corporation

Daicel Arbor Biosciences

Merck KGaA

#### Key Questions Answered

1. How big is the global Cell-free Protein Synthesis market?
2. What is the demand of the global Cell-free Protein Synthesis market?
3. What is the year over year growth of the global Cell-free Protein Synthesis market?
4. What is the total value of the global Cell-free Protein Synthesis market?
5. Who are the Major Players in the global Cell-free Protein Synthesis market?
6. What are the growth factors driving the market demand?

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