

Protein Expression: Global Markets

Market Research Report | 2025-11-25 | 157 pages | BCC Research

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Report description:

Description

Report Scope

The report provides an overview of the global protein expression market and analyzes key market trends. Global revenue (\$ million) for the base year 2024 and estimated data for the forecast period, 2025 through 2030, are also included. The market is segmented into expression system, product types, application, end user and regions. The regions covered in this study are North America, Europe, Asia-Pacific (APAC) and the Rest of the World (RoW), with a focus on major countries in these regions.

The report examines trends and challenges that affect the market and vendor landscape; analyzes environmental, social and corporate governance (ESG) developments; and discusses emerging technologies related to the market.

The report concludes with an analysis of the competitive landscape, providing rankings and market shares of key companies in the global protein expression market. A dedicated section of company profiles provides an overview, key financials, product portfolios and recent developments of leading companies, including a patent analysis.

Report Includes

- 52 data tables and 65 additional tables
- An overview of the global market for protein expression
- In-depth analysis of global market trends, featuring historical revenue data for 2022-2024, estimated figures for 2025, as well as forecasts for 2030. This analysis includes projections of compound annual growth rates (CAGRs) through 2030
- Evaluation of the current market size and revenue growth prospects specific to the protein expression, accompanied by a market share analysis by system type, product, application, end user and region
- Analysis of current and future demand in the global protein expression, along with a detailed analysis of the competitive environment, market regulations and reimbursement practices
- Analysis of drivers, challenges and opportunities affecting market growth
- Coverage of evolving technologies, the current and future market potential, R&D activities, growth strategies, new product pipeline, regulatory framework and reimbursement scenarios, and ESG trends of the market

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- Market share analysis of the key market participants in the protein expression industry, along with their research priorities, product portfolios, global rankings and competitive landscape
- Profiles of the major companies, including Thermo Fisher Scientific Inc., Bio-Rad Laboratories Inc., Merck KGaA, Sartorius AG and Agilent Technologies Inc.

Executive Summary

Summary:

The global market for protein expression is estimated to grow from \$4.7 billion in 2025 to reach \$7.9 billion by 2030, at a compound annual growth rate (CAGR) of 10.9% from 2025 through 2030.

Protein expression is a technique involving three processes - translation, transcription and posttranslational modification - that play vital roles in various applications, including biologics production, therapeutic protein production and research applications. The biotechnology business utilizes prokaryotic (bacterial) and eukaryotic (animal, fungal, or plant) cells to synthesize recombinant proteins - the protein to be expressed determines the cell choice. Although bacteria can yield a high volume of recombinant protein, quality remains a challenge because, in some cases, the expressed proteins do not fold properly. It can also be challenging to conduct post-translational modifications in bacterial cells, a characteristic that is often found in some eukaryotic proteins.

The protein expression market is rapidly expanding due to investments in biotechnology research and the need for therapeutic proteins to treat chronic illnesses.

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