

Protein Expression Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global protein expression market size reached US\$ 2.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach a value of US\$ 4.8 Billion by 2028, exhibiting a growth rate (CAGR) of 10.3% during 2023-2028.

Protein expression refers to a biotechnological process, wherein proteins are modified, synthesized and regulated in living organisms. Transcription, translation and post-translational modifications are some of the processes involved in protein expression. It includes various expression systems that are generally derived from bacterial, algal, insect, cell-free, yeast and mammalian cells. Protein expression is widely used to study the presence of one or more proteins in the tissues or cells. It offers several advantages, such as high expression, good stability, fast-breeding, strong anti-pollution ability and easy purification of the product. As a result, it is commonly used by biotechnologists, pharmaceutical companies, contract research organizations (CROs) and academic research institutes for proteomics.

Protein Expression Market Trends:

The increasing demand for therapeutic proteins, such as vaccines, peptide hormones, therapeutic enzymes, cytokines, antibodies, and blood factors, on account of rising prevalence of chronic diseases, especially amongst the geriatric population is creating a positive outlook for the market. In line with this, the widespread product utilization in the manufacturing of biologics as they play an important role in the treatment process of various health issues is favoring the market growth. Apart from this, various

advancements and innovations in mass spectrometry and molecular genetics that assist in accurate mass determination and characterization of proteins, are providing an impetus to the market growth. Additionally, the rising demand for cell-free protein expression due to its ability to express toxic proteins, increase speed and enhanced overall yields of functional, soluble, full-length proteins is positively impacting the market growth. Other factors, including extensive research and development (R&D) activities and increasing product demand from pharmaceutical and biotechnology companies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global protein expression market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, application and end user.

Breakup by Product:

Reagents and Kits

Cell-free Expression

Bacterial Expression

Yeast Expression

Algal Expression

Insect Expression

Mammalian Expression

Others

Service

Others

Breakup by Application:

Therapeutic

Industrial

Research

Breakup by End User:

Academic Research Institutes
Biotechnology and Pharmaceutical Companies
Contract Research Organizations (CROs)

Breakup by Region:

North America

United States
Canada

Asia-Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others

Latin America

Brazil
Mexico
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Becton Dickinson and Company, Bioneer Corporation, Bio-Rad Laboratories Inc., Lonza Group AG, Merck KGaA, New England Biolabs, Promega Corporation, Qiagen N.V., Sino Biological Inc., Takara Bio Inc. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global protein expression market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global protein expression market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global protein expression market and who are the key players?

What is the degree of competition in the industry?

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