

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

Market Report | 2023-11-24 | 142 pages | IMARC Group

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Report description:

The global protein purification and isolation market size reached US\$ 8.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 14.5 Billion by 2028, exhibiting a growth rate (CAGR) of 9.53% during 2022-2028.

Protein purification and isolation refer to a series of processes undertaken for isolating a type of protein from a complex mixture of cells, organisms, or tissues. These processes are mandatory for performing protein studies, which isolate, concentrate, stabilize, and remove impurities like nucleic acid, endotoxins, and viruses. They involve determining the initial material and maintaining a purification table to track the progress of the enzyme. They are primarily utilized for the classification of the function, structure, and interactions of the protein. Some of the commonly used methods of protein purification and isolation include affinity chromatography, immunoprecipitation, proteomics, or enzyme assay.

Protein Purification and Isolation Market Trends:

The burgeoning pharmaceutical industry across the globe represents one of the primary factors strengthening the growth of the market. Besides this, governing agencies of numerous countries are coming up with favorable initiatives to provide tax incentives, grants, and investment-friendly regulations to the pharmaceutical and biotechnology sector. These initiatives are positively influencing the manufacturers to engage in the research and development (R&D) activities for the development of novel drugs, which is significantly contributing to the market growth. Furthermore, there is a rise in the need for identifying new ligands and the development of purification kits that assist in the screening, preparing, purifying, and concentrating of protein samples. This is acting as another growth-inducing factor. Moreover, several technological advancements, including the introduction of magnetic and protein beads, ligand tagging systems, and automated analyzers, are creating a favorable market outlook. Other major factors like rising research initiatives in academic institutes for structural and functional proteomics, detailed kinetic analysis, and the increasing number of preclinical trials outsourced by drug development companies are anticipated to drive the market further.

Key Market Segmentation:

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

Breakup by Technology:

- Ultrafiltration
- Precipitation
- Preparative Chromatography
- Affinity Chromatography
- Ion Exchange Chromatography
- Reverse-Phase Chromatography
- Hydrophobic Charge Induction Chromatography
- Size Exclusion Chromatography
- Electrophoresis
- Gel Electrophoresis
- Isoelectric Focusing Electrophoresis
- Capillary Electrophoresis
- Western Blotting
- Dialysis and Diafiltration
- Centrifugation

Breakup by Product:

- Instruments
- Consumables
- Protein Purification Kits
- Protein Purification Reagents
- Prepacked Columns
- Protein Purification Resins
- Magnetic Beads
- Others

Breakup by Application:

- Drug Screening
- Protein-Protein Interaction Studies
- Biomarker Discovery
- Target Identification
- Disease Diagnostics and Monitoring
- Protein Therapeutics

Breakup by End User:

- Hospitals and Diagnostic Centers
- Academic Research Institutes
- Pharmaceutical and Biotechnology Companies

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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 Abcam plc, Agilent Technologies Inc., Bio-Rad Laboratories Inc., General Electric Company, Merck KGaA, Norgen Biotek Corp., Promega Corporation, Purolite, Qiagen N.V. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global protein purification and isolation 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 purification and isolation market?

What are the key regional markets?

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

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 purification and isolation market and who are the key players?

What is the degree of competition in the industry?

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