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# Protein Identification Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product & Services (Consumables, Instruments, Services), By Application (Drug Discovery & Development, Clinical Diagnosis, Others), By End-Use (Pharmaceuticals & Biotechnology Companies, Academic Research Institutes, Contract Research Organizations, Others), By Region and Competition, 2020-2030F

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## Abstracts

Market Overview

The Global Protein Identification Market was valued at USD 6.35 billion in 2024 and is projected t%li%reach USD 13.18 billion by 2030, growing at a CAGR of 12.92%. This growth is primarily driven by the increasing focus on proteomics for understanding cellular functions and disease mechanisms. Proteins, serving as vital biomarkers and therapeutic targets, are critical t%li%advancements in drug development, diagnostics, and personalized medicine. As a result, biotechnology and pharmaceutical firms are investing heavily in advanced protein analysis tools such as mass spectrometry, electrophoresis, and chromatography. The demand for precision medicine and biologics is accelerating the need for accurate protein profiling. In addition, government funding for life sciences research and stronger collaborations between academia and industry are reinforcing market expansion.

Key Market Drivers

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Rising Demand for Biologics and Biosimilars

The growing demand for biologics and biosimilars is a major factor driving the Global Protein Identification Market. Biologics such as monoclonal antibodies, therapeutic proteins, and vaccines are transforming the treatment landscape for diseases like cancer, autoimmune conditions, and genetic disorders. Accurate protein identification and characterization are essential t%li%ensure the safety, quality, and efficacy of these therapies. In 2023, the FDA approved 55 new drugs, including 17 biologics, of which 12 were monoclonal antibodies. Similarly, the EMA recommended 77 medicines for marketing authorization, with 39 containing a new active substance, underscoring the focus on biologics. These developments reflect the expanding pipeline of biologic therapies, further increasing the need for advanced protein analysis tools in both development and regulatory processes.

Key Market Challenges

High Cost of Instruments and Analytical Services

One of the primary challenges in the Global Protein Identification Market is the high cost associated with advanced instruments and analytical services. Tools like mass spectrometers, chromatography systems, and protein analyzers are essential but expensive, posing financial barriers for smaller labs and institutions, particularly in emerging regions. The total cost includes not only the initial investment but als%li%ongoing maintenance, consumables, and the requirement for skilled personnel. Moreover, the complexity of protein analysis demands advanced training and expertise, adding t%li%operational expenses. Due t%li%these high costs, many entities opt t%li%outsource services, which can further elevate expenses and limit frequent use. This cost barrier can slow adoption, especially in areas with limited research funding, highlighting the need for more affordable and accessible technologies.

Key Market Trends

Rise in Monoclonal Antibody and Biologics Development

The growing emphasis on monoclonal antibodies (mAbs) and biologic therapies is significantly influencing the Global Protein Identification Market. As mAbs become more prevalent in treating chronic illnesses and cancers, detailed protein analysis is essential for understanding their structures, interactions, and therapeutic potential. The complexity of biologics necessitates the use of sophisticated tools like mass

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spectrometry and chromatography t%li%ensure accurate characterization. This demand is intensified by the shift toward personalized medicine, where protein profiling plays a critical role in tailoring treatments t%li%individual patients. Consequently, pharmaceutical companies and research institutions are investing in cutting-edge technologies t%li%meet the rising demand for reliable protein identification, fostering continued market growth.

Key Market Players

Agilent Technologies, Inc.

Bio-Rad Laboratories, Inc.

Bruker Corporation

Therm%li%Fisher Scientific Inc.

Danaher Corporation

Eurofins Scientific

Merck KGAA

Promega Corporation

Qiagen N.V.

Sartorius AG

Report Scope:

In this report, the Global Protein Identification Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%been detailed below:

Protein Identification Market, By Product & Services:

Consumables

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Instruments

Services

Protein Identification Market, By Application:

Drug Discovery & Development

Clinical Diagnosis

Others

Protein Identification Market, By End-Use:

Pharmaceuticals & Biotechnology Companies

Academic Research Institutes

Contract Research Organizations

Others

Protein Identification Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

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Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Protein Identification Market.

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Available Customizations:

Global Protein Identification Market report with the given market data, TechSci Research offers customizations according t%li%a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up t%li%five).

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# Contents


## 1. PRODUCT OVERVIEW

1.1. Market Definition
1.2. Scope of the Market
  1.2.1. Markets Covered
  1.2.2. Years Considered for Study
  1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

2.1. Objective of the Study
2.2. Baseline Methodology
2.3. Key Industry Partners
2.4. Major Association and Secondary Sources
2.5. Forecasting Methodology
2.6. Data Triangulation & Validation
2.7. Assumptions and Limitations

## 3. EXECUTIVE SUMMARY

3.1. Overview of the Market
3.2. Overview of Key Market Segmentations
3.3. Overview of Key Market Players
3.4. Overview of Key Regions/Countries
3.5. Overview of Market Drivers, Challenges, and Trends

## 4. VOICE OF CUSTOMER

## 5. GLOBAL PROTEIN IDENTIFICATION MARKET OUTLOOK

5.1. Market Size & Forecast
  5.1.1. By Value
5.2. Market Share & Forecast
  5.2.1. By Product & Services (Consumables, Instruments, Services)
  5.2.2. By Application (Drug Discovery & Development, Clinical Diagnosis, Others)
  5.2.3. By End-Use (Pharmaceuticals & Biotechnology Companies, Academic Research Institutes, Contract Research Organizations, Others)

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5.2.4. By Company (2024)
5.2.5. By Region
5.3. Market Map

## 6. NORTH AMERICA PROTEIN IDENTIFICATION MARKET OUTLOOK

6.1. Market Size & Forecast
6.1.1. By Value
6.2. Market Share & Forecast
6.2.1. By Product & Services
6.2.2. By Application
6.2.3. By End-Use
6.2.4. By Country
6.3. North America: Country Analysis
6.3.1. United States Protein Identification Market Outlook
6.3.1.1. Market Size & Forecast
6.3.1.1.1. By Value
6.3.1.2. Market Share & Forecast
6.3.1.2.1. By Product & Services
6.3.1.2.2. By Application
6.3.1.2.3. By End-Use
6.3.2. Mexico Protein Identification Market Outlook
6.3.2.1. Market Size & Forecast
6.3.2.1.1. By Value
6.3.2.2. Market Share & Forecast
6.3.2.2.1. By Product & Services
6.3.2.2.2. By Application
6.3.2.2.3. By End-Use
6.3.3. Canada Protein Identification Market Outlook
6.3.3.1. Market Size & Forecast
6.3.3.1.1. By Value
6.3.3.2. Market Share & Forecast
6.3.3.2.1. By Product & Services
6.3.3.2.2. By Application
6.3.3.2.3. By End-Use

## 7. EUROPE PROTEIN IDENTIFICATION MARKET OUTLOOK

7.1. Market Size & Forecast

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7.1.1. By Value
7.2. Market Share & Forecast
7.2.1. By Product & Services
7.2.2. By Application
7.2.3. By End-Use
7.2.4. By Country
7.3. Europe: Country Analysis
7.3.1. France Protein Identification Market Outlook
7.3.1.1. Market Size & Forecast
7.3.1.1.1. By Value
7.3.1.2. Market Share & Forecast
7.3.1.2.1. By Product & Services
7.3.1.2.2. By Application
7.3.1.2.3. By End-Use
7.3.2. Germany Protein Identification Market Outlook
7.3.2.1. Market Size & Forecast
7.3.2.1.1. By Value
7.3.2.2. Market Share & Forecast
7.3.2.2.1. By Product & Services
7.3.2.2.2. By Application
7.3.2.2.3. By End-Use
7.3.3. United Kingdom Protein Identification Market Outlook
7.3.3.1. Market Size & Forecast
7.3.3.1.1. By Value
7.3.3.2. Market Share & Forecast
7.3.3.2.1. By Product & Services
7.3.3.2.2. By Application
7.3.3.2.3. By End-Use
7.3.4. Italy Protein Identification Market Outlook
7.3.4.1. Market Size & Forecast
7.3.4.1.1. By Value
7.3.4.2. Market Share & Forecast
7.3.4.2.1. By Product & Services
7.3.4.2.2. By Application
7.3.4.2.3. By End-Use
7.3.5. Spain Protein Identification Market Outlook
7.3.5.1. Market Size & Forecast
7.3.5.1.1. By Value
7.3.5.2. Market Share & Forecast

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7.3.5.2.1. By Product & Services
7.3.5.2.2. By Application
7.3.5.2.3. By End-Use

## 8. ASIA-PACIFIC PROTEIN IDENTIFICATION MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Product & Services
8.2.2. By Application
8.2.3. By End-Use
8.2.4. By Country
8.3. Asia-Pacific: Country Analysis
8.3.1. China Protein Identification Market Outlook
8.3.1.1. Market Size & Forecast
8.3.1.1.1. By Value
8.3.1.2. Market Share & Forecast
8.3.1.2.1. By Product & Services
8.3.1.2.2. By Application
8.3.1.2.3. By End-Use
8.3.2. India Protein Identification Market Outlook
8.3.2.1. Market Size & Forecast
8.3.2.1.1. By Value
8.3.2.2. Market Share & Forecast
8.3.2.2.1. By Product & Services
8.3.2.2.2. By Application
8.3.2.2.3. By End-Use
8.3.3. South Korea Protein Identification Market Outlook
8.3.3.1. Market Size & Forecast
8.3.3.1.1. By Value
8.3.3.2. Market Share & Forecast
8.3.3.2.1. By Product & Services
8.3.3.2.2. By Application
8.3.3.2.3. By End-Use
8.3.4. Japan Protein Identification Market Outlook
8.3.4.1. Market Size & Forecast
8.3.4.1.1. By Value
8.3.4.2. Market Share & Forecast

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8.3.4.2.1. By Product & Services
8.3.4.2.2. By Application
8.3.4.2.3. By End-Use
8.3.5. Australia Protein Identification Market Outlook
8.3.5.1. Market Size & Forecast
8.3.5.1.1. By Value
8.3.5.2. Market Share & Forecast
8.3.5.2.1. By Product & Services
8.3.5.2.2. By Application
8.3.5.2.3. By End-Use

## 9. SOUTH AMERICA PROTEIN IDENTIFICATION MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Product & Services
9.2.2. By Application
9.2.3. By End-Use
9.2.4. By Country
9.3. South America: Country Analysis
9.3.1. Brazil Protein Identification Market Outlook
9.3.1.1. Market Size & Forecast
9.3.1.1.1. By Value
9.3.1.2. Market Share & Forecast
9.3.1.2.1. By Product & Services
9.3.1.2.2. By Application
9.3.1.2.3. By End-Use
9.3.2. Argentina Protein Identification Market Outlook
9.3.2.1. Market Size & Forecast
9.3.2.1.1. By Value
9.3.2.2. Market Share & Forecast
9.3.2.2.1. By Product & Services
9.3.2.2.2. By Application
9.3.2.2.3. By End-Use
9.3.3. Colombia Protein Identification Market Outlook
9.3.3.1. Market Size & Forecast
9.3.3.1.1. By Value
9.3.3.2. Market Share & Forecast

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info@marketpublishers.com

9.3.3.2.1. By Product & Services
9.3.3.2.2. By Application
9.3.3.2.3. By End-Use

## 10. MIDDLE EAST AND AFRICA PROTEIN IDENTIFICATION MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Product & Services
10.2.2. By Application
10.2.3. By End-Use
10.2.4. By Country
10.3. MEA: Country Analysis
10.3.1. South Africa Protein Identification Market Outlook
10.3.1.1. Market Size & Forecast
10.3.1.1.1. By Value
10.3.1.2. Market Share & Forecast
10.3.1.2.1. By Product & Services
10.3.1.2.2. By Application
10.3.1.2.3. By End-Use
10.3.2. Saudi Arabia Protein Identification Market Outlook
10.3.2.1. Market Size & Forecast
10.3.2.1.1. By Value
10.3.2.2. Market Share & Forecast
10.3.2.2.1. By Product & Services
10.3.2.2.2. By Application
10.3.2.2.3. By End-Use
10.3.3. UAE Protein Identification Market Outlook
10.3.3.1. Market Size & Forecast
10.3.3.1.1. By Value
10.3.3.2. Market Share & Forecast
10.3.3.2.1. By Product & Services
10.3.3.2.2. By Application
10.3.3.2.3. By End-Use

## 11. MARKET DYNAMICS

11.1. Drivers

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11.2. Challenges

**12. MARKET TRENDS & DEVELOPMENTS**

12.1. Merger & Acquisition (If Any)
12.2. Product Launches (If Any)
12.3. Recent Developments

**13. PORTERS FIVE FORCES ANALYSIS**

13.1. Competition in the Industry
13.2. Potential of New Entrants
13.3. Power of Suppliers
13.4. Power of Customers
13.5. Threat of Substitute Products

**14. COMPETITIVE LANDSCAPE**

14.1. Agilent Technologies, Inc.
  14.1.1. Business Overview
  14.1.2. Company Snapshot
  14.1.3. Products & Services
  14.1.4. Financials (As Reported)
  14.1.5. Recent Developments
  14.1.6. Key Personnel Details
  14.1.7. SWOT Analysis
14.2. Bio-Rad Laboratories, Inc.
14.3. Bruker Corporation
14.4. Thermo Fisher Scientific Inc.
14.5. Danaher Corporation
14.6. Eurofins Scientific
14.7. Merck KGAA
14.8. Promega Corporation
14.9. Qiagen N.V.
14.10. Sartorius AG

**15. STRATEGIC RECOMMENDATIONS**

**16. ABOUT US & DISCLAIMER**

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