

# **Protein Detection & Quantification Market Report by Product (Kits and Reagents/Consumables, Instruments, Services), Technology (Colorimetric Assays, Immunological Methods, Chromatography, Mass Spectrometry, Spectroscopy Instruments, and Others), Application (Drug Discovery and Development, Clinical Diagnosis, and Others), End User (Academic Research Institutes, Biotechnology and Pharmaceutical Companies, Contract Research Organization, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/P4CD3F9D8A9DEN.html>

Date: March 2024

Pages: 147

Price: US\$ 3,899.00 (Single User License)

ID: P4CD3F9D8A9DEN

## **Abstracts**

The global protein detection & quantification market size reached US\$ 2.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.6 Billion by 2032, exhibiting a growth rate (CAGR) of 7.8% during 2024-2032. The market is experiencing steady growth driven by the increasing emphasis on personalized medicine, rising need for proteomics research to uncover novel insights into protein functions, interactions, and post-translational modifications and the escalating demand for more sensitive, high-throughput, and automation-compatible assays and technologies.

**Protein Detection & Quantification Market Analysis:**

**Market Growth and Size:** The market is witnessing moderate growth, driven by the increasing emphasis on personalized medicine, drug development, and diagnostics. Additionally, the thriving pharmaceutical and biotechnology industries are bolstering the growth of the market.

**Technological Advancements:** Ongoing innovations in proteomics techniques, such as mass spectrometry and immunoassays, are enabling more precise and efficient protein detection and quantification.

**Industry Applications:** Protein detection and quantification is vital in various industrial applications, including pharmaceuticals, biotechnology, clinical diagnostics, and academic research, which rely on it for drug discovery, biomarker identification, and disease diagnosis.

**Geographical Trends:** North America leads the market on account of its well-established infrastructure for life sciences research. However, Asia Pacific is emerging as a fast-growing market, driven by the growing demand for protein analysis tools in both research and clinical applications.

**Competitive Landscape:** Key players in the market are actively engaged in several strategic initiatives. These include continuous innovations in assay kits, reagents, and instruments to enhance sensitivity and specificity in protein detection methods.

**Challenges and Opportunities:** While the market faces challenges, such as sample variability and the need for standardized protocols, it also encounters opportunities due to expanding applications in clinical diagnostics and the development of point-of-care (POC) testing.

**Future Outlook:** The future of the protein detection & quantification market looks promising, with advancements in technology and increasing research needs. Moreover, expansion into emerging markets and continued innovation is expected to propel the growth of the market.

#### Protein Detection & Quantification Market Trends:

##### Increasing demand for personalized medicine

The growing emphasis on personalized medicine is offering a favorable market outlook. As the healthcare industry shifts towards more individualized treatment strategies, the need for accurate and specific protein analysis is becoming paramount. Protein quantification plays a crucial role in identifying biomarkers that guide treatment decisions tailored as per the unique genetic and molecular profile of patients. This not only enhances the effectiveness of therapies but also minimizes adverse effects. Additionally, in oncology, protein quantification aids in identifying specific cancer subtypes and predicting their response to targeted therapies. As personalized medicine is gaining traction, the demand for precise protein detection tools and assays is rising around the world.

##### Rise in drug development and biotechnology research

Pharmaceutical and biotechnology sectors rely on accurate protein analysis throughout drug discovery, development, and production processes. Proteins are essential in drug target identification, validation, and lead optimization. Precise quantification ensures the efficacy and safety of pharmaceutical compounds. Moreover, biotechnology companies utilize protein quantification to engineer and optimize protein-based therapeutics, such as monoclonal antibodies and enzymes. With the development of novel drugs and biologics, the demand for advanced protein detection and quantification methods is increasing. This factor drives innovation in the field, leading to the development of more sensitive, high-throughput, and automation-compatible assays and technologies, thereby contributing to the growth of the market.

#### Increasing emphasis on disease biomarker identification

The rising emphasis on early disease detection and biomarker identification is impelling the growth of the market. Identifying specific proteins associated with various diseases, including cancer, cardiovascular disorders, and neurological conditions, is crucial for early diagnosis and monitoring. Protein biomarkers serve as indicators of disease presence, progression, and response to treatment. This, in turn, is catalyzing the demand for highly sensitive and specific protein quantification techniques. In clinical diagnostics, protein quantification supports the development of diagnostic assays that enable healthcare professionals to detect diseases at their earliest stages, improving patient outcomes. Furthermore, pharmaceutical companies rely on biomarkers during drug development to stratify patients for clinical trials and assess treatment effectiveness.

#### Growing need for proteomics research

The increasing need for proteomics research is strengthening the growth of the market. Proteomics, the study of the entire complement of proteins in a biological system, is gaining prominence in understanding complex biological processes, diseases, and drug development. Researchers and scientists are using proteomics to uncover novel insights into protein functions, interactions, and post-translational modifications. To achieve these objectives, precise and high-throughput protein detection and quantification methods are indispensable. As proteomics is expanding its applications in fields, such as cancer biology, neuroscience, and immunology, there is a growing demand for advanced tools and techniques that can accurately measure and analyze proteins. This trend is driving continuous innovations in the market, leading to the development of more sophisticated and sensitive assays, instruments, and software to support proteomics research endeavors.

### Protein Detection & Quantification Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on product, technology, application, and end user.

#### Breakup by Product:

Kits and Reagents/Consumables

Instruments

Services

Kits and reagents/consumables account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the product. This includes kits and reagents/consumables, instruments, and services. According to the report, kits and reagents/consumables represent the largest segment.

Kits and reagents/consumables include a wide range of essential components, such as antibodies, assay kits, and buffers, required for protein analysis. Researchers and laboratories rely on these products for their protein detection assays, Western blotting, enzyme-linked immunosorbent assays (ELISA), and other protein quantification techniques. The availability of high-quality, application-specific reagents and kits simplifies the workflow and ensures accurate results.

The instruments segment encompasses various analytical tools and equipment used for protein detection and quantification, including mass spectrometers, spectrophotometers, and gel electrophoresis systems. These instruments are essential for researchers to carry out precise and advanced protein analysis.

The services segment includes a range of protein-related services, such as protein profiling, quantification, and characterization offered by contract research organizations (CROs), academic institutions, and specialized laboratories. These services cater to clients who may not have the resources or expertise to perform protein analysis in-house.

#### Breakup by Technology:

Colorimetric Assays

Immunological Methods

Chromatography

Mass Spectrometry  
Spectroscopy Instruments  
Others

Colorimetric assays hold the largest share in the industry

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes colorimetric assays, immunological methods, chromatography, mass spectrometry, spectroscopy instruments, and others. According to the report, colorimetric assays account for the largest market share.

Colorimetric assays rely on color changes resulting from specific reactions between proteins and reagents. They are preferred for their simplicity, cost-effectiveness, and wide applicability in various research and clinical settings. They are especially valuable for quantifying proteins in high-throughput formats, which is propelling the growth of the market.

Immunological methods, such as Western blotting and immunoprecipitation, are widely used for protein detection and quantification. These techniques leverage the specificity of antibodies to target and measure specific proteins. They offer high sensitivity and are crucial in identifying and verifying protein expression levels, post-translational modifications, and protein-protein interactions in various research fields.

Chromatography-based methods, including high-performance liquid chromatography (HPLC) and liquid chromatography-mass spectrometry (LC-MS), are instrumental in separating and quantifying proteins. They allow for precise protein separation based on size, charge, or affinity, followed by quantification.

Mass spectrometry is a powerful technique for protein identification and quantification. It is instrumental in proteomics studies, allowing researchers to measure proteins with high accuracy and sensitivity. It also provides valuable insights into protein expression, structure, and modifications.

Spectroscopy instruments, including ultraviolet (UV)-visible and infrared spectrometers, are used to analyze proteins based on their interaction with electromagnetic radiation. These instruments are suitable for both qualitative and quantitative protein analysis, providing information on protein concentration, secondary structure, and conformational changes.

## Breakup by Application:

- Drug Discovery and Development
- Clinical Diagnosis
- Others

Drug discovery and development represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes drug discovery and development, clinical diagnosis, and others. According to the report, drug discovery and development represent the largest segment as protein analysis plays a pivotal role in identifying and validating potential drug targets, evaluating the effectiveness of drug candidates, and assessing their safety profiles. Precise quantification of proteins involved in disease pathways, as well as the measurement of biomarkers, aids in the discovery of novel therapeutics. Additionally, during the drug development process, protein quantification ensures the quality and consistency of biopharmaceutical products, such as monoclonal antibodies and recombinant proteins.

The clinical diagnosis segment involves the use of protein detection and quantification techniques in medical diagnostics. Protein biomarkers are critical for disease diagnosis, prognosis, and monitoring treatment responses. Clinical laboratories and healthcare settings rely on these methods to detect specific proteins associated with various diseases, including cancer markers, cardiac biomarkers, and infectious disease antigens. Accurate protein quantification is essential for early disease detection, personalized medicine, and patient care.

## Breakup by End User:

- Academic Research Institutes
- Biotechnology and Pharmaceutical Companies
- Contract Research Organization
- Others

Biotechnology and pharmaceutical companies dominate the market

The report has provided a detailed breakup and analysis of the market based on the end user. This includes academic research institutes, biotechnology and pharmaceutical companies, contract research organization, and others. According to the report,

biotechnology and pharmaceutical companies represent the largest segment.

Biotechnology and pharmaceutical companies rely on protein analysis for various purposes, including drug discovery, development, and quality control. Precise quantification of proteins is crucial in target identification, validation, and lead optimization phases of drug development. Additionally, biotech and pharmaceutical companies use protein detection to assess the purity and consistency of biopharmaceutical products, ensuring their safety and efficacy.

Academic research institutes are significant users of protein detection and quantification technologies. These institutions conduct fundamental research across various scientific disciplines, including molecular biology, biochemistry, and cellular biology. Protein analysis is essential in academic laboratories for studying protein functions, interactions, and their role in disease pathways.

Contract research organizations (CROs) offer specialized protein-related services to biotech, pharmaceutical companies, and academic institutions. These services may include protein profiling, quantification, and characterization. CROs play a critical role in supporting research and development (R&D) activities by providing expertise, equipment, and resources for protein analysis.

#### 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

North America leads the market, accounting for the largest protein detection & quantification market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounts for the largest market share due to its well-established infrastructure for life sciences research, a high concentration of biotechnology and pharmaceutical companies, and government and private investments in healthcare and research activities. The United States is a major contributor to the market growth, driven by its leading role in drug discovery and development. Additionally, academic research institutes in the region are focusing on innovations in protein analysis technologies.

The Asia Pacific region is experiencing substantial growth on account of the increasing research and development (R&D) activities, rising investments in life sciences, and the expansion of biotechnology and pharmaceutical industries. Emerging economies like China and India are becoming key players, with a growing demand for protein analysis tools in both research and clinical applications.

Europe is another significant market, characterized by the thriving pharmaceutical and biotechnology sectors, renowned research institutions, and a focus on cutting-edge scientific advancements. Countries like Germany, the United Kingdom, and France have a strong presence in the market, with a growing emphasis on proteomics research.

Latin America is an emerging market, with partnerships with global pharmaceutical companies and academic collaborations. In addition, the growing demand for enhanced healthcare infrastructure is offering a favorable market outlook in the region.



The Middle East and Africa region show potential for growth in the market due to the increasing number of academic institutions. Besides this, rising investments in healthcare facilities by the governing agencies in the region are bolstering the market growth.

#### Leading Key Players in the Protein Detection & Quantification Industry:

Key players in the market are actively engaged in several strategic initiatives. These include continuous innovations in assay kits, reagents, and instruments to enhance sensitivity and specificity in protein detection methods. They are also investing in the development of high-throughput and automation-compatible platforms, catering to the increasing demand for efficient protein analysis. Collaboration with academic and research institutions is fostering research and development (R&D) activities of cutting-edge technologies. Additionally, key players are expanding their global footprint by entering emerging markets in Asia-Pacific and Latin America. Overall, they are committed to advancing protein detection and quantification technologies to meet the evolving needs of the scientific and pharmaceutical communities.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Agilent Technologies Inc.  
Bio-Rad Laboratories Inc.  
Danaher Corporation  
General Electric Company  
Inanovate Inc.  
Merck KGaA  
PerkinElmer Inc.  
RayBiotech Life Inc.  
Shimadzu Corporation  
Thermo Fisher Scientific Inc.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

#### Latest News:

April 26, 2023: Agilent Technologies Inc. announced the signing of a Memorandum of Understanding (MOU) with Theragen Bio in South Korea to boost precision oncology through advancing bioinformatic (BI) solutions. Through this partnership agreement,

Agilent and Theragen Bio will combine their respective strengths in cancer genomic profiling (CGP) design, engineering knowledge and software expertise to drive localized analysis capabilities and accelerate treatment decisions.

June 30, 2021: Bio-Rad Laboratories, Inc., a global leader of life science research and clinical diagnostic products, announced a partnership with Seegene, Inc., a global leader in multiplex molecular diagnostics, for the clinical development and commercialization of infectious disease molecular diagnostic products. Through this agreement, Seegene will provide diagnostic tests for use on Bio-Rad's CFX96™ Dx Real-Time PCR System for US markets pending clinical development and clearance from The US Food and Drug Administration (FDA).

March 7, 2023: Danaher Corporation, a global science and technology innovator, announced a strategic partnership with the University of Pennsylvania (Penn) focusing on cell therapy innovation. This multi-year partnership aims to develop new technologies that will improve the consistency of clinical outcomes for patients and overcome manufacturing bottlenecks in the delivery of next generation engineered cell products.

### Key Questions Answered in This Report

1. What was the size of the global protein detection & quantification market in 2023?
2. What is the expected growth rate of the global protein detection & quantification market during 2024-2032?
3. What are the key factors driving the global protein detection & quantification market?
4. What has been the impact of COVID-19 on the global protein detection & quantification market?
5. What is the breakup of the global protein detection & quantification market based on the product?
6. What is the breakup of the global protein detection & quantification market based on the technology?
7. What is the breakup of the global protein detection & quantification market based on the application?
8. What is the breakup of the global protein detection & quantification market based on the end user?
9. What are the key regions in the global protein detection & quantification market?
10. Who are the key players/companies in the global protein detection & quantification market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL PROTEIN DETECTION & QUANTIFICATION MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT**

- 6.1 Kits and Reagents/Consumables
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Instruments
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Services

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

## **7 MARKET BREAKUP BY TECHNOLOGY**

- 7.1 Colorimetric Assays
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Immunological Methods
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Chromatography
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Mass Spectrometry
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Spectroscopy Instruments
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast
- 7.6 Others
  - 7.6.1 Market Trends
  - 7.6.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Drug Discovery and Development
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Clinical Diagnosis
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Others
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY END USER**

- 9.1 Academic Research Institutes

- 9.1.1 Market Trends
- 9.1.2 Market Forecast
- 9.2 Biotechnology and Pharmaceutical Companies
  - 9.2.1 Market Trends
  - 9.2.2 Market Forecast
- 9.3 Contract Research Organization
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Others
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
  - 10.2.1 China
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 Japan
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 India
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 South Korea
    - 10.2.4.1 Market Trends
    - 10.2.4.2 Market Forecast
  - 10.2.5 Australia
    - 10.2.5.1 Market Trends
    - 10.2.5.2 Market Forecast
  - 10.2.6 Indonesia
    - 10.2.6.1 Market Trends

- 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 France
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 United Kingdom
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 Italy
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Spain
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Russia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country

### 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
  - 15.3.1 Agilent Technologies Inc.
    - 15.3.1.1 Company Overview
    - 15.3.1.2 Product Portfolio
    - 15.3.1.3 Financials
    - 15.3.1.4 SWOT Analysis
  - 15.3.2 Bio-Rad Laboratories Inc.
    - 15.3.2.1 Company Overview
    - 15.3.2.2 Product Portfolio
    - 15.3.2.3 Financials
    - 15.3.2.4 SWOT Analysis
  - 15.3.3 Danaher Corporation

- 15.3.3.1 Company Overview
- 15.3.3.2 Product Portfolio
- 15.3.3.3 Financials
- 15.3.3.4 SWOT Analysis
- 15.3.4 General Electric Company
  - 15.3.4.1 Company Overview
  - 15.3.4.2 Product Portfolio
  - 15.3.4.3 Financials
  - 15.3.4.4 SWOT Analysis
- 15.3.5 Inanovate Inc.
  - 15.3.5.1 Company Overview
  - 15.3.5.2 Product Portfolio
- 15.3.6 Merck KGaA
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
  - 15.3.6.3 Financials
  - 15.3.6.4 SWOT Analysis
- 15.3.7 PerkinElmer Inc.
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 Financials
  - 15.3.7.4 SWOT Analysis
- 15.3.8 RayBiotech Life Inc.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
- 15.3.9 Shimadzu Corporation
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
  - 15.3.9.4 SWOT Analysis
- 15.3.10 Thermo Fisher Scientific Inc.
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
  - 15.3.10.3 Financials
  - 15.3.10.4 SWOT Analysis



## List Of Tables

### LIST OF TABLES

Table 1: Global: Protein Detection & Quantification Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Protein Detection & Quantification Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: Protein Detection & Quantification Market Forecast: Breakup by Technology (in Million US\$), 2024-2032

Table 4: Global: Protein Detection & Quantification Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Protein Detection & Quantification Market Forecast: Breakup by End User (in Million US\$), 2024-2032

Table 6: Global: Protein Detection & Quantification Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Protein Detection & Quantification Market: Competitive Structure

Table 8: Global: Protein Detection & Quantification Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Protein Detection & Quantification Market: Major Drivers and Challenges

Figure 2: Global: Protein Detection & Quantification Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Protein Detection & Quantification Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Protein Detection & Quantification Market: Breakup by Product (in %), 2023

Figure 5: Global: Protein Detection & Quantification Market: Breakup by Technology (in %), 2023

Figure 6: Global: Protein Detection & Quantification Market: Breakup by Application (in %), 2023

Figure 7: Global: Protein Detection & Quantification Market: Breakup by End User (in %), 2023

Figure 8: Global: Protein Detection & Quantification Market: Breakup by Region (in %), 2023

Figure 9: Global: Protein Detection & Quantification (Kits and Reagents/Consumables) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Protein Detection & Quantification (Kits and Reagents/Consumables) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Protein Detection & Quantification (Instruments) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Protein Detection & Quantification (Instruments) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Protein Detection & Quantification (Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Protein Detection & Quantification (Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Protein Detection & Quantification (Colorimetric Assays) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Protein Detection & Quantification (Colorimetric Assays) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Protein Detection & Quantification (Immunological Methods) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Protein Detection & Quantification (Immunological Methods) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Protein Detection & Quantification (Chromatography) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Protein Detection & Quantification (Chromatography) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Protein Detection & Quantification (Mass Spectrometry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Protein Detection & Quantification (Mass Spectrometry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Protein Detection & Quantification (Spectroscopy Instruments) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Protein Detection & Quantification (Spectroscopy Instruments) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Protein Detection & Quantification (Other Technologies) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Protein Detection & Quantification (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Protein Detection & Quantification (Drug Discovery and Development) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Protein Detection & Quantification (Drug Discovery and Development) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Protein Detection & Quantification (Clinical Diagnosis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Protein Detection & Quantification (Clinical Diagnosis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Protein Detection & Quantification (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Protein Detection & Quantification (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Protein Detection & Quantification (Academic Research Institutes) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Protein Detection & Quantification (Academic Research Institutes) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Protein Detection & Quantification (Biotechnology and Pharmaceutical Companies) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Protein Detection & Quantification (Biotechnology and Pharmaceutical Companies) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Global: Protein Detection & Quantification (Contract Research Organization) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Global: Protein Detection & Quantification (Contract Research Organization) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Global: Protein Detection & Quantification (Other End Users) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Global: Protein Detection & Quantification (Other End Users) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: North America: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: North America: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: United States: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: United States: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Canada: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Canada: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Asia-Pacific: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Asia-Pacific: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: China: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: China: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Japan: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Japan: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: India: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: India: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: South Korea: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: South Korea: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Australia: Protein Detection & Quantification Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 58: Australia: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Indonesia: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Indonesia: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Others: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Others: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Europe: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Europe: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Germany: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Germany: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: France: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: France: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: United Kingdom: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: United Kingdom: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Italy: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Italy: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Spain: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Spain: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Russia: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Russia: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Others: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Others: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Latin America: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Latin America: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Brazil: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Brazil: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Mexico: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Mexico: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 85: Others: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Others: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Middle East and Africa: Protein Detection & Quantification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Middle East and Africa: Protein Detection & Quantification Market: Breakup by Country (in %), 2023

Figure 89: Middle East and Africa: Protein Detection & Quantification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 90: Global: Protein Detection & Quantification Industry: SWOT Analysis

Figure 91: Global: Protein Detection & Quantification Industry: Value Chain Analysis

Figure 92: Global: Protein Detection & Quantification Industry: Porter's Five Forces Analysis

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