

Biotechnology Reagents Market - Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Technology (Life Science Reagents, Analytical Reagents), By Application (Protein Synthesis and Purification, Gene Expression, DNA and RNA Analysis, Drug Testing, Other), By Region, Competition

Market Report | 2023-10-03 | 180 pages | TechSci Research

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Report description:

In 2022, the Global Biotechnology Reagents Market was valued at a substantial USD 75.04 billion, and it is poised to exhibit robust growth in the coming years, with a projected Compound Annual Growth Rate (CAGR) of 6.40% through 2028. This market is an integral and dynamic component of the broader life sciences and biotechnology sector. Biotechnology reagents refer to chemical compounds or substances utilized in a range of biological and biotechnological research, diagnostic procedures, and production activities. These reagents play a pivotal role in facilitating scientists, researchers, and biotech enterprises in their endeavors to investigate, manipulate, and analyze biological molecules, cells, and tissues.

Key Market Drivers

Advancements in Biotechnology Research

Advancements in biotechnology research encompass a wide range of innovations and breakthroughs in the field. These developments include:

The ability to sequence entire genomes quickly and cost-effectively has opened up avenues for personalized medicine, genetic testing, and understanding the genetic basis of diseases. Proteomics focuses on the study of proteins and their functions. It involves techniques like mass spectrometry and 2D gel electrophoresis, which require specialized reagents for sample preparation and analysis. Techniques like PCR (Polymerase Chain Reaction) and DNA/RNA extraction are fundamental to biotechnology research. High-quality reagents are essential for these processes. Advances in stem cell research have the potential to revolutionize regenerative medicine. Culturing and manipulating stem cells require precise reagents. Genome editing using CRISPR-Cas9 has revolutionized genetic engineering. Researchers rely on specific reagents to deliver CRISPR components into cells.

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The continuous evolution of these fields and the emergence of new technologies demand a steady supply of specialized reagents, creating a robust market for biotechnology reagents.

Rising Prevalence of Chronic Diseases

The global burden of chronic diseases, such as cancer, diabetes, and cardiovascular diseases, has been on the rise for several reasons:

As the world's population ages, the incidence of chronic diseases increases because these conditions are more common in older individuals. Sedentary lifestyles, poor dietary choices, and increased stress contribute to the development of chronic diseases. Pollution, exposure to harmful chemicals, and other environmental factors can increase the risk of chronic diseases.

Biotechnology reagents play a crucial role in diagnosing these diseases through techniques like PCR for genetic testing, ELISA for biomarker detection, and immunoassays for disease monitoring. Moreover, reagents are essential in drug discovery efforts to develop new treatments for chronic diseases.

Drug Development and Pharmaceutical Industry

The pharmaceutical and biotechnology industries are major drivers for biotechnology reagents for the following reasons: Researchers in these industries use reagents for high-throughput screening to identify potential drug candidates. This involves testing thousands of compounds, requiring extensive reagent use. Before developing a drug, scientists need to identify and validate specific molecular targets. Reagents are used in assays and experiments to validate these targets' relevance. Reagents are crucial in clinical trials to monitor patient responses, detect biomarkers, and ensure the safety and efficacy of new drugs. The development of biologic drugs, such as monoclonal antibodies and gene therapies, relies heavily on biotechnology reagents. The pharmaceutical industry's continuous efforts to develop new therapies and treatments ensure a consistent demand for specialized reagents.

Government Investments and Funding

Government investments and funding in biotechnology research and related fields have a significant impact on the market: Governments allocate funds for research grants that support academic and industrial research projects. These grants often specify the need for specific reagents and supplies. Many countries have launched national biotechnology initiatives to foster innovation and competitiveness. These initiatives provide financial support for biotechnology companies and research institutions. Government healthcare budgets often include funding for diagnostic and therapeutic advancements, which drive the demand for reagents in healthcare settings.

Government support not only encourages research and development but also helps ensure the availability of funding for the purchase of biotechnology reagents, stimulating market growth.

Key Market Challenges

Regulatory and Compliance Hurdles

Biotechnology reagents are essential components in various research, diagnostic, and therapeutic applications. However, the industry faces significant regulatory challenges that can hinder market growth. These challenges include:

Stringent Quality and Safety Regulations: Regulatory agencies such as the U.S. Food and Drug Administration (FDA) and the European Medicines Agency (EMA) impose strict quality and safety standards on reagents used in clinical diagnostics and therapeutics. Meeting these standards requires substantial investments in research, development, and manufacturing.

Compliance with Evolving Regulations: Regulations in the biotechnology field are constantly evolving to keep pace with scientific advancements. Biotech companies must stay updated and adapt their processes to remain compliant, which can be resource-intensive.

International Harmonization: Global sales of biotechnology reagents often require compliance with multiple international regulations, leading to complex regulatory hurdles and potentially limiting market expansion.

Meeting these regulatory challenges requires significant financial resources and time, which can slow down the market's growth and innovation.

Rising Cost of Research and Development

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The biotechnology reagent market relies heavily on research and development (R&D) for the development of innovative products. However, several factors contribute to the rising cost of R&D in this industry, including:

Complexity of Research: As biotechnology research becomes more intricate, the development of specialized reagents to support this research becomes costlier. This includes the need for advanced technologies and specialized expertise. **Quality Assurance and Validation:** Ensuring the quality, consistency, and safety of reagents demands extensive validation and quality control measures, which can be expensive. **Clinical Trials:** For reagents used in diagnostics or therapeutics, conducting clinical trials to demonstrate efficacy and safety adds significant costs to the development process. The high cost of R&D can limit the number of players entering the market and increase the prices of biotechnology reagents, potentially slowing down market growth.

Intellectual Property and Patent Issues

Intellectual property (IP) and patent-related challenges can present obstacles to market growth in the biotechnology reagent industry:

Patent Protection: Many innovative reagents are developed through extensive research and development efforts. Patent protection is crucial to incentivize investment in R&D. However, disputes over patent rights and infringement claims can lead to legal battles that divert resources away from product development. **Licensing Agreements:** Access to patented technologies and reagents may require licensing agreements, which can involve complex negotiations and fees, affecting market access and profitability. **Intellectual Property Uncertainty:** The interpretation and enforcement of intellectual property rights can vary by country, leading to uncertainty and legal challenges when operating in multiple international markets. These intellectual property-related issues can create legal and financial burdens for companies in the biotechnology reagent sector, potentially slowing down market expansion and innovation.

Key Market Trends

Growing Demand for Personalized Medicine:

Personalized medicine is a significant trend in the healthcare and biotechnology sectors. It involves tailoring medical treatments and therapies to individual patients based on their genetic makeup, lifestyle, and other factors. This trend has a direct impact on the biotechnology reagent market in several ways:

Genetic Testing: The rise of genetic testing for disease risk assessment, pharmacogenomics, and other applications requires specific reagents for DNA and RNA analysis. **Biomarker Discovery:** Personalized medicine relies on identifying biomarkers that can predict patient responses to treatments. Reagents are essential for biomarker discovery and validation. **Targeted Therapies:** As more targeted therapies are developed to treat specific genetic mutations or disease subtypes, there is a growing need for reagents used in drug development and patient diagnostics.

The demand for biotechnology reagents is likely to increase as personalized medicine continues to gain prominence, driving innovation and expansion in the market.

Rapid Advancements in Gene Editing Technologies:

Gene editing technologies, particularly CRISPR-Cas9, have experienced rapid advancements and adoption in research and therapeutics. This trend impacts the biotechnology reagent market in several ways:

CRISPR Reagents: The widespread use of CRISPR-Cas9 for gene editing requires specialized reagents for gene delivery, targeting, and validation. **Genome Engineering:** Researchers and biotech companies are increasingly using gene editing for a wide range of applications, from agricultural biotechnology to the development of gene therapies. This drives the demand for reagents. **Precision Medicine:** Gene editing holds promise for developing precise treatments for genetic diseases, contributing to the demand for reagents in this area.

As gene editing technologies continue to evolve and find new applications, the market for reagents supporting these technologies is expected to expand significantly.

Digitalization and Data-Driven Insights:

The integration of digital technologies and data-driven approaches into biotechnology research and development is transforming the way experiments are conducted and results are analyzed. This trend has several implications for the biotechnology reagent market:

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High-Throughput Screening: Automation and digitalization enable high-throughput screening of compounds and reagents, leading to increased efficiency and reduced resource consumption. Data Analytics: Advanced analytics and artificial intelligence are being used to analyze large datasets generated from biotechnology experiments, leading to more informed decision-making in drug discovery and diagnostics. Remote Monitoring: Remote monitoring and control of experiments, facilitated by digital tools, are becoming increasingly common, reducing the need for physical presence in laboratories.

Segmental Insights

Technology Insights

Based on the category of Technology, the Life Science Reagents segment emerged as the dominant player in the global market for Biotechnology Reagents in 2022. The life science reagent segment dominates the Global Biotechnology Reagents Market primarily due to its essential role in advancing scientific research, diagnostics, and therapeutic development across various domains within the life sciences.

Life science reagents are fundamental for molecular biology techniques, such as PCR (Polymerase Chain Reaction), DNA sequencing, and gene expression analysis. These techniques are the backbone of genomics and molecular diagnostics. Reagents like DNA polymerases, primers, nucleotides, and DNA/RNA extraction kits are critical for conducting experiments in genetics and genomics. The study of proteins is crucial for understanding cell function, signaling pathways, and disease mechanisms. Life science reagents play a central role in proteomic techniques like Western blotting, ELISA (Enzyme-Linked Immunosorbent Assay), and mass spectrometry. Antibodies, protein lysis buffers, and protein quantification reagents are essential components for protein analysis. Cell culture and cell-based assays are essential for drug discovery, toxicity testing, and understanding cellular behavior. Life science reagents include culture media, growth factors, and cell viability assays, which are indispensable for maintaining and experimenting with cells in a controlled environment. Flow cytometry is a technology used for analyzing and sorting cells based on their characteristics. Life science reagents include fluorescent dyes, antibodies, and cell staining reagents used in flow cytometry and immunophenotyping. These reagents enable the identification and quantification of specific cell populations. These factors are expected to drive the growth of this segment.

Application Insights

Based on the category of Application, the Protein Synthesis and Purification segment emerged as the dominant player in the global market for Biotechnology Reagents in 2022. The Protein Synthesis and Purification segment is a dominant force in the Global Biotechnology Reagents Market, primarily due to its pivotal role in various applications within the field of biotechnology.

Recombinant Protein Production: Biotechnology reagents are essential for producing recombinant proteins in various host systems, such as bacteria, yeast, insect cells, and mammalian cells. Researchers and biotech companies require reagents like expression vectors, cell culture media, and protein purification kits to obtain high yields of target proteins. Biopharmaceuticals: The production of biopharmaceuticals, including monoclonal antibodies and therapeutic proteins, relies heavily on biotechnology reagents. These reagents are used throughout the upstream and downstream processes, from cell line development to protein purification and formulation.

Protein purification is a critical step in biopharmaceutical production, structural biology, and biochemical research. Reagents used in chromatography columns, resins, and affinity tags are vital for isolating and purifying proteins with high specificity and purity. Biotechnology reagents enable researchers to characterize purified proteins, determining their molecular weight, post-translational modifications, and structural features. This characterization is crucial for quality control in biopharmaceutical manufacturing. X-ray Crystallography and NMR Spectroscopy: In structural biology, reagents play a vital role in crystallizing proteins for X-ray crystallography or preparing samples for NMR (Nuclear Magnetic Resonance) spectroscopy. These techniques help scientists elucidate protein structures, which is essential for drug design and understanding biological mechanisms. Protein synthesis and purification reagents are indispensable for preparing samples for mass spectrometry analysis. This technique is crucial for identifying proteins, quantifying their abundance, and studying post-translational modifications. Researchers use purified proteins in functional assays to understand their biochemical activities and interactions with other molecules. These assays are essential for studying signalling pathways, enzymatic reactions, and drug target validation. These factors collectively contribute to the growth of this segment.

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Regional Insights

North America emerged as the dominant player in the global Biotechnology Reagents market in 2022, holding the largest market share in terms of value. A well-established biotechnology and pharmaceutical industry with numerous research and development centres.

Strong government investments in life sciences and biotechnology research. High healthcare expenditure and demand for advanced diagnostics and therapies. A robust ecosystem of biotechnology companies and academic research institutions. Early adoption of cutting-edge technologies and reagents in research and clinical applications.

Canada: Canada also plays a significant role in the North American market due to its active biotech sector, research excellence, and collaborations with international partners.

The Asia-Pacific market is poised to be the fastest-growing market, offering lucrative growth opportunities for Biotechnology Reagents players during the forecast period. Factors such as Countries in Asia-Pacific, including China, India, Japan, South Korea, and Singapore, are experiencing rapid economic growth, leading to increased investments in healthcare, biotechnology, and research. Asia-Pacific has witnessed substantial growth in its pharmaceutical and biotechnology industries. This includes the development of biopharmaceuticals, biosimilars, and novel therapies, which require biotechnology reagents. The region is home to world-class research institutions, universities, and biotechnology companies actively engaged in R&D. This contributes to the demand for reagents for various applications. Improvements in healthcare infrastructure and access to medical services have increased the demand for diagnostic tests and precision medicine, relying on biotechnology reagents. Several governments in the Asia-Pacific region have launched initiatives to promote biotechnology and life sciences, offering incentives and funding for research and development projects.

Key Market Players

Abbott Laboratories

Agilent Technologies

Danaher Corporation (Beckman Coulter Inc.)

Becton Dickinson & Company

Bio-Rad Laboratories

bioMerieux SA

Siemens Healthcare

Merck KGaA (Sigma Aldrich Corporation)

Thermo Fisher Scientific Inc.

Waters Corporation

Report Scope:

In this report, the Global Biotechnology Reagents Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

?□Biotechnology Reagents Market, By Technology:

o□Life Science Reagents

o□Analytical Reagents

?□Biotechnology Reagents Market, By Application:

o□Protein Synthesis and Purification

o□Gene Expression

o□DNA and RNA Analysis

o□Drug Testing

o□Other

?□Biotechnology Reagents Market, By Region:

o□North America

?□United States

?□Canada

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- o □ Europe
- ? □ France
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- ? □ Italy
- ? □ Germany
- ? □ Spain
- o □ Asia-Pacific
- ? □ China
- ? □ India
- ? □ Japan
- ? □ Australia
- ? □ South Korea
- o □ South America
- ? □ Brazil
- ? □ Argentina
- ? □ Colombia
- o □ Middle East & Africa
- ? □ South Africa
- ? □ Saudi Arabia
- ? □ UAE
- ? □ Kuwait
- ? □ Turkey
- ? □ Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Biotechnology Reagents Market.

Available Customizations:

Global Biotechnology Reagents market report with the given market data, Tech Sci Research offers customizations according to 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 to five).

Table of 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

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- 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
- 4. Overview of Market Drivers, Challenges, Trends
- 5. Voice of Customer
- 6. Global Biotechnology Reagents Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Technology (Life Science Reagents, Analytical Reagents)
 - 6.2.2. By Application (Protein Synthesis and Purification, Gene Expression, DNA and RNA Analysis, Drug Testing, Other)
 - 6.2.3. By Region
 - 6.2.4. By Company (2022)
 - 6.3. Market Map
- 7. North America Biotechnology Reagents Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Technology
 - 7.2.2. By Application
 - 7.2.3. By Country
 - 7.3. North America: Country Analysis
 - 7.3.1. United States Biotechnology Reagents 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 Technology
 - 7.3.1.2.2. By Application
 - 7.3.2. Canada Biotechnology Reagents 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 Technology
 - 7.3.2.2.2. By Application
 - 7.3.3. Mexico Biotechnology Reagents 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 Technology
 - 7.3.3.2.2. By Application
- 8. Europe Biotechnology Reagents Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Technology

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- 8.2.2.□By Application
- 8.3.□Europe: Country Analysis
 - 8.3.1.□Germany Biotechnology Reagents 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 Technology
 - 8.3.1.2.2.□By Application
 - 8.3.2.□United Kingdom Biotechnology Reagents 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 Technology
 - 8.3.2.2.2.□By Application
 - 8.3.3.□Italy Biotechnology Reagents 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 Technology
 - 8.3.3.2.2.□By Application
 - 8.3.4.□France Biotechnology Reagents Market Outlook
 - 8.3.4.1.□Market Size & Forecast
 - 8.3.4.1.1.□By Value
 - 8.3.4.2.□Market Share & Forecast
 - 8.3.4.2.1.□By Technology
 - 8.3.4.2.2.□By Application
 - 8.3.5.□Spain Biotechnology Reagents 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 Technology
 - 8.3.5.2.2.□By Application
- 9.□Asia-Pacific Biotechnology Reagents Market Outlook
 - 9.1.□Market Size & Forecast□
 - 9.1.1.□By Value
 - 9.2.□Market Share & Forecast
 - 9.2.1.□By Technology
 - 9.2.2.□By Application
 - 9.3.□Asia-Pacific: Country Analysis
 - 9.3.1.□China Biotechnology Reagents 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 Technology
 - 9.3.1.2.2.□By Application
 - 9.3.2.□India Biotechnology Reagents Market Outlook
 - 9.3.2.1.□Market Size & Forecast

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- 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Technology
 - 9.3.2.2.2. By Application
- 9.3.3. Japan Biotechnology Reagents Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Technology
 - 9.3.3.2.2. By Application
- 9.3.4. South Korea Biotechnology Reagents Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Technology
 - 9.3.4.2.2. By Application
- 9.3.5. Australia Biotechnology Reagents Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Technology
 - 9.3.5.2.2. By Application
- 10. South America Biotechnology Reagents Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Technology
 - 10.2.2. By Application
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil Biotechnology Reagents 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 Technology
 - 10.3.1.2.2. By Application
 - 10.3.2. Argentina Biotechnology Reagents 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 Technology
 - 10.3.2.2.2. By Application
 - 10.3.3. Colombia Biotechnology Reagents 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 Technology
 - 10.3.3.2.2. By Application

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- 11. Middle East and Africa Biotechnology Reagents Market Outlook
 - 11.1. Market Size & Forecast
 - 11.1.1. By Value
 - 11.2. Market Share & Forecast
 - 11.2.1. By Technology
 - 11.2.2. By Application
 - 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Biotechnology Reagents Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Technology
 - 11.3.1.2.2. By Application
 - 11.3.2. Saudi Arabia Biotechnology Reagents Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Technology
 - 11.3.2.2.2. By Application
 - 11.3.3. UAE Biotechnology Reagents Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Technology
 - 11.3.3.2.2. By Application
- 12. Market Dynamics
 - 12.1. Drivers & Challenges
- 13. Market Trends & Developments
 - 13.1. Recent Developments
 - 13.2. Product Launches
 - 13.3. Mergers & Acquisition
- 14. Global Biotechnology Reagents Market: SWOT Analysis
- 15. Competitive Landscape
 - 15.1. Business Overview
 - 15.2. Application Offerings
 - 15.3. Recent Developments
 - 15.4. Key Personnel
 - 15.5. SWOT Analysis
 - 15.5.1. Abbott Laboratories
 - 15.5.2. Agilent Technologies
 - 15.5.3. Danaher Corporation (Beckman Coulter Inc.)
 - 15.5.4. Becton Dickinson & Company
 - 15.5.5. Bio-Rad Laboratories
 - 15.5.6. bioMerieux SA
 - 15.5.7. Siemens Healthcare
 - 15.5.8. Merck KGaA (Sigma Aldrich Corporation)
 - 15.5.9. Thermo Fisher Scientific Inc.

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- 15.5.10. Waters Corporation
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

Biotechnology Reagents Market - Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Technology (Life Science Reagents, Analytical Reagents), By Application (Protein Synthesis and Purification, Gene Expression, DNA and RNA Analysis, Drug Testing, Other), By Region, Competition

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