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Global Molecular Biology Enzymes and Kits & Reagents Market By Product (Kits & Reagents and Enzymes), By Application (PCR, Sequencing, Cloning, Epigenetics, Restriction Digestion, Synthetic Biology and Other Applications), By End-User (Pharmaceutical & Biotechnology Companies, Academic & Research Institutes, Hospitals & Diagnostic Centers and Other End-users), and By Region (North America, Europe, Asia Pacific, South America, and Middle East & Africa)-Global Forecast to 2027

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Abstracts

Global Molecular Biology Enzymes and Kits & Reagents Market Overview:

Molecular Biology is the field of biology that studies the composition, structure, and interactions of cellular molecules such as nucleic acids and proteins that carry out the biological processes essential for the cell's functions and maintenance. Molecular biology plays a vital role in understanding the formations, actions, and regulations of various parts of cells, which can be used to efficiently target new drugs, diagnose disease, and understand the cell's physiology. Molecular biology enzymes and kits & reagents are widely used for research, drug discovery, and diagnostic testing.

Global Molecular Biology Enzymes and Kits & Reagents Market Insights

The global molecular biology enzymes and kits & reagents market size was valued at USD 1318.8 million in 2019 and projected to reach USD 4045.8 million by 2027,

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growing at a CAGR of 13.57% forecast period 2020-2027. The major factors are the rise in the prevalence of genetic disorders and infectious diseases. Additionally, the increasing R&D investments in the life science industry and rising research activities will spur the global molecular biology enzymes and kits & reagents industry in the future periods. Furthermore, the growing public-private funding for molecular biology research activities and technological advancement is expected to witness remarkable molecular biology enzymes and kits & reagents' remarkable growth. Moreover, the upsurge in demand for personalized medicine and the rising number of genome projects positively impact the market for molecular biology enzymes and kits &reagents in the healthcare industry.

Furthermore, the rapidly expanding customer base, rise in the extensive R&D activities at the academic and industrial level, and increasing scope of biomedical applications are fueling the demand for molecular biology enzymes and kits & reagents market. The growing adaptation of molecular diagnostics such as epigenetics and polymerase chain reaction (PCR) will bolster global molecular biology enzymes and kits & reagents market share. Additionally, the growing geriatric population and increasing healthcare demands in the developing world propelling the growth of the molecular biology enzymes and kits & reagents market across the globe.

Growth Driver

Single-cell sequencing provides a vital application area in cancer research. Single-cell sequencing technologies are widely used in the research of various tumors and offer great significance for the development of new diagnostic and anti-tumor treatment methods. In addition, Single-cell sequencing technologies are used to detect the genome, transcriptome, and other multi-omics of single cells. Single-cell genome sequencing offers a viable solution for the effective assessment of biomolecules, including RNA, DNA, chromatin, and protein, which has accelerated revenue growth. Isolation of these molecules from a single cell for advanced molecular profiling enables a better understanding of biological diversity. Due to the advantages of large market size, low market concentration, and gradual maturity of diagnostic technology applications, molecular biology enzymes and kits have attracted various enterprises to the layout.

Product Segmental Analysis

Based on the product, the global molecular biology enzymes and kits & reagents market is segregated into kits &reagents and enzymes. The enzyme segment is further

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segmented into polymerases, ligases, restriction endonucleases, reverse transcriptases, phosphatases, proteases & proteinases, and other enzymes.

The kits & reagents segment is estimated to witness the highest growth over the analysis timeframe due to repetitive purchase of single-use products, rising need for molecular diagnostics, and rising research on drugs in the pharmaceutical industries.

The enzymes will grow significantly due to the increasing use of proteases in diagnosis, high demand for cloning technology in routine laboratory, and rapid customer base expansion.

Application Segmental Analysis

Based on the application, the global molecular biology enzymes and kits & reagents market is classified into polymerase chain reaction, sequencing, cloning, epigenetics, restriction digestion, synthetic biology, and other applications.

The sequencing is expected to be the highest revenue share for molecular biology enzymes and kits & reagents during the forecast period. The segment's growth is primarily attributed to the decreasing cost of sequencing, rising genomic research, and rising use of whole-genome sequencing & personalized genome sequencing.

The PCR will witness a lucrative growth rate in the estimated period due to growing demand for PCR equipment by the majority of end-users and rapid technological advancements.

End-User Segmental Analysis

Based on the end-user, the global molecular biology enzymes and kits & reagents market is segmented into pharmaceutical & biotechnology companies, academic & research institutes, hospitals & diagnostic centers, and other end-users.

The hospital &diagnostics centers segment will dominate the global molecular biology enzymes and kits & reagents market by 2027. Due to the surge in the number of hospitals &diagnostic centers using molecular diagnostics technology, economic expansion, and government focus on broader healthcare policies.

The pharmaceuticals and biotechnology companies accounted for the largest share of the molecular biology enzymes and kits & reagents market in 2019 on account of the

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rising prevalence of infectious diseases, rising R&D expenditure, and increasing use of molecular biology products in the clinical trial setting.

Region Segmental Analysis

By geography, the global molecular biology enzymes and kits & reagents market segmented into North America, Europe, Asia Pacific, South America, and Middle East & Africa. North America is estimated to project considerable growth over 2020-2026. It is due to raising research funding for genomic research, leading industry players offering innovative products, and increasing healthcare expenditure.

The Asia Pacific will capture a prominent share of the molecular biology enzymes and kits & reagents market by 2027. The increasing prevalence of conditions involving molecular diagnostics is continually improving healthcare infrastructure in the region and mounting health care expenditures in emerging countries such as India and China.

Competitor Analysis

Companies such as Thermo Fisher Scientific Inc., QIAGEN, Illumina Inc., F. Hoffmann-La Roche Ltd, Agilent Technologies Inc, Bio-Rad Laboratories Inc., New England Biolabs, Merck KGaA, Promega Corporation, Takara Bio Inc., LGC Limited, Bio Basic, Jena Bioscience, and Molecular Biology Resources are the key players in the global molecular biology enzymes and kits & reagents market.

Key Stakeholders

- Market research and consulting firms
- Industry associations
- Global molecular biology enzymes and kits & reagents manufacturing firm
- Research organizations and consulting companies
- Organizations, associations, and alliances related to molecular biology enzymes and kits & reagents
- Regulatory bodies

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Suppliers

Retailers

The objective of the Research

Market modeling starts with identifying a target market where historical data exists. A Market can include prediction problems, economic factors, analyzing customer behavior, and identifying new patterns from past events, which helps our client to have deep dive into the market.

Product analysis involves steps such as examining product features, costs, availability, quality, and other aspects. Product analysis is conducted to understand potential buyers and measure competition in the market.

Market Trend and Economic Factors Analysis helps in assessing potential changes to an economy's inflation rate, taxes, interest rates, exchange rates, trading regulations, and excise duties that can or have a major effect on the target market.

Market Segmental Analysis defines in-depth scenario of the target market by the process of grouping consumers into naturally existing created segments of consumers who share similar product preferences or characteristics

The geographical mapping approach helps our clients to understand national or international markets because different consumers in different regions have different needs wants, and cultural characteristics that can be specifically targeted.

Market Modelling

By Product

Kits & Reagents

Enzymes

By Application

PCR

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- Sequencing
- Cloning
- Epigenetics
- Restriction Digestion
- Synthetic Biology
- Other Applications

By End-User

- Pharmaceuticals and Biotechnology Companies
- Academic & Research Institutes
- Hospitals & Diagnostic Centers
- Other End Users

By Region

- North America
- Europe
- Asia Pacific
- South America
- Middle East & Africa

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