

Molecular Biology Enzymes & Kits & Reagents Market by Product (Kit, Reagent, Enzyme), Application (PCR, Sequencing, Epigenetic, Synthetic Biology), End user (Research Institutes, Pharma & Biotech Company, Hospitals) and Region - Global Forecast to 2026

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Abstracts

The global molecular biology enzymes and kits & reagents market is projected to USD 29.7 billion by 2026 from USD 15.3 billion in 2021, at a CAGR of 14.2% during the forecast period. The rising number of genome projects coupled with reducing genetic analysis costs helps advance research in various domains, such as disease treatment, personalized medicine, and microbial genetics. These processes require the use of various molecular biology enzymes and reagents and are thus expected to drive the molecular biology enzymes and kits & reagents market. However, factors such as limited reimbursements for genetic testing is likely to hinder the growth of this market.

“The kits & reagents segment accounted for the highest growth rate in the molecular biology enzymes and kits & reagents market, by product, during the forecast period”

The molecular biology enzymes and kits & reagents market is segmented into enzymes and kits & reagents. The kits & reagents segment accounted for the largest share of 85.9% of the global molecular biology enzymes and kits & reagents market in 2020. The large share of this segment can primarily be attributed to the repeat purchase of these single-use products. This segment is also expected to grow at the highest rate owing to its wide applications by pharmaceutical & biotechnology companies.

“Polymerase chain reaction (PCR) segment accounted for the largest share”

Based on applications, the global molecular biology enzymes and kits & reagents

market is segmented into polymerase chain reaction (PCR), sequencing, cloning, epigenetics, restriction digestion, synthetic biology, and other applications (mutagenesis, in vitro transcription, and molecular labeling & detection).

The polymerase chain reaction (PCR) segment accounted for the largest share of the molecular biology enzymes and kits & reagents market in 2020, mainly due to the low cost of PCR equipment, the extensive use of PCR equipment by a majority of end users, and the increasing use of PCR for molecular diagnostic assays in hospitals and clinics.

“Asia Pacific: The fastest-growing region in the molecular biology enzymes and kits & reagents market”

The molecular biology enzymes and kits & reagents market is segmented into North America, Europe, Asia Pacific, RoW. The molecular biology enzymes and kits & reagents market in the Asia Pacific region is expected to grow at the highest CAGR during the forecast period. Growth in the APAC market is driven by increasing government interest in the biomedical & biotechnology industries, the presence of bio-clusters in India and China, and the growing outsourcing of clinical research activities to Asian countries.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 80% and Demand Side 20%

By Designation: C-level - 25%, D-level - 20%, and Others - 55%

By Region: North America -50%, Europe -20%, Asia-Pacific -20%, RoW -10%

Lists of Companies Profiled in the Report:

Thermo Fisher (US)

Merck (Germany)

Illumina (US)

QIAGEN (Netherlands)

New England Biolabs (US)

Promega (US)

Agilent (US)

Roche (Switzerland)

Takara Bio (Japan)

Bio Basic (Canada)

Jena Bioscience (Germany)

Molecular Biology Resources (US)

Bio-Rad Laboratories Inc. (US)

Zymo Research Corporation (US)

Integrated DNA Technologies Inc. (US)

LGC Biosearch Technologies (UK)

NZYTEch (Portugal) Lucigen Corporation (US)

MoBiTec GmbH (Germany)

Genekam Biotechnology (Germany)

Aldevron (US) Randox (Northern Ireland)

ADS Biotec Inc. (US)

Hangzhou Matridx Biotechnology Co. Ltd. (China)

Goldsite Diagnostics Inc. (China)

Research Coverage:

This report provides a detailed picture of the molecular biology enzymes and kits & reagents market. It aims at estimating the size and future growth potential of the market across different segments such as the service end user and region. The report also includes an in-depth competitive analysis of the key market players along with their company profiles recent developments and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall molecular biology enzymes and kits & reagents market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, trends, opportunities, and challenges.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH APPROACH
 - FIGURE 1 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - FIGURE 2 BREAKDOWN OF PRIMARIES: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET
- 2.2 MARKET DATA ESTIMATION & TRIANGULATION
 - FIGURE 3 DATA TRIANGULATION METHODOLOGY
- 2.3 MARKET ESTIMATION METHODOLOGY
 - FIGURE 4 MARKET SIZE ESTIMATION APPROACH: COMPANY REVENUE ANALYSIS
 - FIGURE 5 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SIZE (USD BILLION): FINAL MARKET SIZE
- 2.4 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST
 - FIGURE 6 GROWTH RATE ASSUMPTION BASED ON MARKET DYNAMICS
 - FIGURE 7 FINAL CAGR PROJECTIONS (2021?2026)
- 2.5 INSIGHTS FROM PRIMARIES
 - FIGURE 8 MARKET VALIDATION FROM PRIMARY EXPERTS
- 2.6 RESEARCH ASSUMPTIONS
- 2.7 RISK ASSESSMENT
 - TABLE 1 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 9 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SHARE, BY PRODUCT, 2020

FIGURE 10 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SHARE, BY APPLICATION, 2020

FIGURE 11 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2021 VS. 2026 (USD MILLION)

FIGURE 12 GEOGRAPHICAL SNAPSHOT OF THE MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

4 PREMIUM INSIGHTS

4.1 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET OVERVIEW

FIGURE 13 INCREASING R&D INVESTMENTS IN THE LIFE SCIENCE INDUSTRY TO DRIVE MARKET GROWTH

4.2 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

FIGURE 14 KITS & REAGENTS TO COMMAND THE LARGEST SHARE OF THE NORTH AMERICAN MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

4.3 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION

FIGURE 15 PCR APPLICATIONS TO REGISTER THE HIGHEST GROWTH DURING THE FORECAST PERIOD

4.4 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 16 MARKETS IN THE ASIA PACIFIC REGION TO REGISTER HIGHER GROWTH RATES BETWEEN 2021 & 2026

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 17 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET: DRIVERS, RESTRAINTS, AND OPPORTUNITIES

5.2.1 DRIVERS

5.2.1.1 Growing number of genome projects

5.2.1.2 Technological advancements in the life science industry

5.2.1.3 Rising incidence of genetic disorders

5.2.2 RESTRAINTS

5.2.2.1 Limited reimbursements for genetic testing

5.2.3 OPPORTUNITIES

5.2.3.1 Increased use of personalized medicine

TABLE 2 GOVERNMENT FUNDING FOR PERSONALIZED MEDICINE

5.2.3.2 R&D investments offer significant opportunities for the market

5.3 COVID-19 IMPACT ANALYSIS

FIGURE 18 COUNTRY-WISE DAILY TESTS FOR COVID-19

5.4 TECHNOLOGY ANALYSIS

TABLE 3 TRADITIONAL BIOLOGY VS. MOLECULAR BIOLOGY

5.5 VALUE CHAIN ANALYSIS

FIGURE 19 VALUE CHAIN ANALYSIS OF THE MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

5.6 SUPPLY CHAIN ANALYSIS

FIGURE 20 SUPPLY CHAIN OF THE MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

5.7 PORTERS FIVE FORCES ANALYSIS

5.7.1 THREAT FROM NEW ENTRANTS

5.7.2 THREAT FROM SUBSTITUTES

5.7.3 BARGAINING POWER OF SUPPLIERS

5.7.4 BARGAINING POWER OF BUYERS

5.7.5 INTENSITY OF COMPETITION RIVALRY

5.8 REGULATORY LANDSCAPE

TABLE 4 REGULATORY LANDSCAPE FOR THE MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

5.9 PRICING ANALYSIS

TABLE 5 PRICING ANALYSIS FOR MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS

5.10 PATENT ANALYSIS

FIGURE 21 PATENT ANALYSIS FOR THE MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET (2010–2020)

6 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT

6.1 INTRODUCTION

TABLE 6 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

6.2 KITS & REAGENTS

6.2.1 WIDE APPLICATIONS OF KITS & REAGENTS AND THEIR EXTENSIVE USAGE IN VARIOUS APPLIED INDUSTRIES TO DRIVE MARKET GROWTH

TABLE 7 MOLECULAR BIOLOGY KITS & REAGENTS MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 8 NORTH AMERICA: MOLECULAR BIOLOGY KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 9 EUROPE: MOLECULAR BIOLOGY KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 10 APAC: MOLECULAR BIOLOGY KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

6.3 ENZYMES

TABLE 11 MOLECULAR BIOLOGY ENZYMES MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 12 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 13 EUROPE: MOLECULAR BIOLOGY ENZYMES MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 14 APAC: MOLECULAR BIOLOGY ENZYMES MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

6.3.1 POLYMERASES

6.3.1.1 Growing use of polymerases in PCR to drive segmental growth

TABLE 15 MOLECULAR BIOLOGY ENZYMES MARKET FOR POLYMERASES, BY REGION, 2019–2026 (USD MILLION)

6.3.2 LIGASES

6.3.2.1 Growing demand for ligases in cloning experiments to boost growth in this market segment

TABLE 16 MOLECULAR BIOLOGY ENZYMES MARKET FOR LIGASES, BY REGION, 2019–2026 (USD MILLION)

6.3.3 RESTRICTION ENDONUCLEASES

6.3.3.1 Wide applications of restriction endonucleases in gene mapping and genotyping—a key factor driving market growth

TABLE 17 MOLECULAR BIOLOGY ENZYMES MARKET FOR RESTRICTION ENDONUCLEASES, BY REGION, 2019–2026 (USD MILLION)

6.3.4 REVERSE TRANSCRIPTASES

6.3.4.1 Increasing demand for RT-PCR diagnostic tests to fuel the adoption of reverse transcriptases

TABLE 18 MOLECULAR BIOLOGY ENZYMES MARKET FOR REVERSE TRANSCRIPTASES, BY REGION, 2019–2026 (USD MILLION)

6.3.5 OTHER ENZYMES

TABLE 19 MOLECULAR BIOLOGY ENZYMES MARKET FOR OTHER ENZYMES, BY REGION, 2019–2026 (USD MILLION)

7 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION

7.1 INTRODUCTION

TABLE 20 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

7.2 POLYMERASE CHAIN REACTION

7.2.1 TECHNOLOGICAL ADVANCEMENTS IN PCR TO DRIVE GROWTH IN THIS MARKET SEGMENT

TABLE 21 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PCR APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 22 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PCR APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 23 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PCR APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 24 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PCR APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.3 SEQUENCING

7.3.1 DECREASING COST OF SEQUENCING, COUPLED WITH RISING DEMAND FOR PERSONALIZED MEDICINE, TO DRIVE MARKET GROWTH

TABLE 25 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SEQUENCING APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 26 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SEQUENCING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 27 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SEQUENCING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 28 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SEQUENCING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.4 CLONING

7.4.1 RISING APPLICATIONS OF CLONING KITS TO DRIVE GROWTH IN THIS MARKET SEGMENT

TABLE 29 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR CLONING APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 30 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR CLONING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 31 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR CLONING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 32 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR CLONING APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.5 EPIGENETICS

7.5.1 HIGH PREVALENCE OF CANCER IS LIKELY TO BOOST MARKET GROWTH

TABLE 33 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR EPIGENETICS APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 34 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR EPIGENETICS APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 35 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR EPIGENETICS APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 36 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR EPIGENETICS APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.6 SYNTHETIC BIOLOGY

7.6.1 DECREASING MARKET PRICES FOR GENE SYNTHESIS TO DRIVE MARKET GROWTH

TABLE 37 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SYNTHETIC BIOLOGY APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 38 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SYNTHETIC BIOLOGY APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 39 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SYNTHETIC BIOLOGY APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 40 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR SYNTHETIC BIOLOGY APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.7 RESTRICTION DIGESTION

7.7.1 GROWTH IN GENE-BASED RESEARCH ACTIVITIES HAS BOOSTED SEGMENTAL GROWTH

TABLE 41 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR RESTRICTION DIGESTION APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 42 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR RESTRICTION DIGESTION APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 43 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR RESTRICTION DIGESTION APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 44 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR RESTRICTION DIGESTION APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

7.8 OTHER APPLICATIONS

TABLE 45 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER APPLICATIONS, BY REGION, 2019–2026 (USD MILLION)

TABLE 46 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 47 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2019–2026 (USD MILLION)

8 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER

8.1 INTRODUCTION

TABLE 48 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

8.2 ACADEMIC & RESEARCH INSTITUTES

8.2.1 INCREASING RESEARCH ACTIVITIES BACKED BY FUNDING FROM GOVERNMENT AND PRIVATE ORGANIZATIONS TO DRIVE MARKET GROWTH

TABLE 49 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION, 2019–2026 (USD MILLION)

TABLE 50 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 51 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 52 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2019–2026 (USD MILLION)

8.3 HOSPITALS & DIAGNOSTIC CENTERS

8.3.1 INCREASING LAUNCHES OF PRODUCTS USED IN HOSPITALS & DIAGNOSTIC CENTERS TO DRIVE MARKET GROWTH

TABLE 53 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR HOSPITALS & DIAGNOSTIC CENTERS, BY REGION, 2019–2026 (USD MILLION)

TABLE 54 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR HOSPITALS & DIAGNOSTIC CENTERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 55 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR HOSPITALS & DIAGNOSTIC CENTERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 56 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR HOSPITALS & DIAGNOSTIC CENTERS, BY COUNTRY, 2019–2026 (USD MILLION)

8.4 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES

8.4.1 INCREASING DRUG RESEARCH AND R&D EXPENDITURE TO DRIVE GROWTH IN THIS END-USER SEGMENT

TABLE 57 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2019–2026 (USD MILLION)

TABLE 58 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 59 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 60 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2019–2026 (USD MILLION)

8.5 OTHER END USERS

TABLE 61 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER END USERS, BY REGION, 2019–2026 (USD MILLION)

TABLE 62 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 63 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 64 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

9 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 22 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SNAPSHOT

TABLE 65 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 66 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS (HOME BREW TEST) MARKET, BY REGION, 2019–2026 (USD MILLION)

9.2 NORTH AMERICA

FIGURE 23 NORTH AMERICAN MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SNAPSHOT

TABLE 67 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 68 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 69 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES MARKET, BY TYPE, 2019–2026 (USD MILLION)

TABLE 70 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 71 NORTH AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.2.1 US

9.2.1.1 Increasing research in genomics to propel market growth in the US

TABLE 72 US: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 73 US: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 74 US: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.2.2 CANADA

9.2.2.1 Growing investments and funding in research projects to drive the growth of the Canadian market

TABLE 75 CANADA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 76 CANADA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 77 CANADA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3 EUROPE

TABLE 78 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 79 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 80 EUROPE: MOLECULAR BIOLOGY ENZYMES MARKET, BY TYPE, 2019–2026 (USD MILLION)

TABLE 81 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 82 EUROPE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3.1 GERMANY

9.3.1.1 Increasing pharmaceutical R&D in Germany to drive market growth in the coming years

TABLE 83 GERMANY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 84 GERMANY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 85 GERMANY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3.2 UK

9.3.2.1 The 100,000 Genomes Project drives the demand for molecular biology enzymes and kits & reagents in the UK

TABLE 86 UK: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 87 UK: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 88 UK: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3.3 FRANCE

9.3.3.1 Investments in the Genomic Medicine 2025 plan to drive market growth

TABLE 89 FRANCE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 90 FRANCE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 91 FRANCE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3.4 ITALY

9.3.4.1 Large biotechnology and pharmaceutical industry in Italy to drive market growth

TABLE 92 ITALY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 93 ITALY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 94 ITALY: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.3.5 ROE

TABLE 95 ROE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 96 ROE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 97 ROE: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.4 ASIA PACIFIC

FIGURE 24 APAC MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET SNAPSHOT

TABLE 98 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 99 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 100 APAC: MOLECULAR BIOLOGY ENZYMES MARKET, BY TYPE, 2019–2026 (USD MILLION)

TABLE 101 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 102 APAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.4.1 JAPAN

9.4.1.1 Growing focus on cancer research and treatment is expected to augment market growth in Japan

TABLE 103 JAPAN: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 104 JAPAN: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 105 JAPAN: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.4.2 CHINA

9.4.2.1 Increasing R&D investments and outsourcing of clinical research activities to China to drive market growth

TABLE 106 CHINA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 107 CHINA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 108 CHINA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.4.3 INDIA

9.4.3.1 Development of bio-clusters and biotech parks to propel the biotechnology industry in India

TABLE 109 INDIA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 110 INDIA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 111 INDIA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.4.4 ROAPAC

TABLE 112 ROAPAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 113 ROAPAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 114 ROAPAC: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.5 REST OF THE WORLD (ROW)

TABLE 115 ROW: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 116 ROW: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 117 ROW: MOLECULAR BIOLOGY ENZYMES MARKET, BY TYPE, 2019–2026 (USD MILLION)

TABLE 118 ROW: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS

MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 119 ROW: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS

MARKET, BY END USER, 2019–2026 (USD MILLION)

9.5.1 LATIN AMERICA

9.5.1.1 Investments in research backed by workshops and conferences to drive market growth

TABLE 120 LIST OF COURSES AND WORKSHOPS HELD IN LATIN AMERICA BY THE INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY (ICGEB)

TABLE 121 LATIN AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 122 LATIN AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 123 LATIN AMERICA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

9.5.2 MIDDLE EAST & AFRICA

9.5.2.1 Growing prevalence of cancer and increasing funding for molecular diagnostics to drive market growth

TABLE 124 MEA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY PRODUCT, 2019–2026 (USD MILLION)

TABLE 125 MEA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 126 MEA: MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET, BY END USER, 2019–2026 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 REVENUE SHARE ANALYSIS OF TOP MARKET PLAYERS

10.3 MARKET SHARE ANALYSIS

FIGURE 26 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET RANK, BY KEY PLAYER, 2020

TABLE 127 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET: DEGREE OF COMPETITION

10.4 COMPETITIVE LEADERSHIP MAPPING

10.4.1 STARS

10.4.2 EMERGING LEADERS

10.4.3 PERVASIVE PLAYERS

10.4.4 PARTICIPANTS

FIGURE 27 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET:
COMPANY EVALUATION QUADRANT (2020)

10.5 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET: SME
EVALUATION MATRIX, 2020

10.5.1 PROGRESSIVE COMPANIES

10.5.2 STARTING BLOCKS

10.5.3 RESPONSIVE COMPANIES

10.5.4 DYNAMIC COMPANIES

FIGURE 28 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET:
STARTUP/SME EVALUATION MATRIX, 2020

10.6 COMPANY PRODUCT FOOTPRINT

TABLE 128 PRODUCT PORTFOLIO ANALYSIS: MOLECULAR BIOLOGY ENZYMES
AND KITS & REAGENTS MARKET

10.7 COMPANY GEOGRAPHIC FOOTPRINT OF MAJOR PLAYERS IN THE
MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET

TABLE 129 GEOGRAPHIC REVENUE MIX: MOLECULAR BIOLOGY ENZYMES AND
KITS & REAGENTS MARKET (2020)

10.8 COMPETITIVE SCENARIO

10.8.1 PRODUCT LAUNCHES

TABLE 130 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET:
PRODUCT LAUNCHES, FEBRUARY 2020–FEBRUARY 2021

10.8.2 DEALS

TABLE 131 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET:
DEALS, JANUARY 2018–FEBRUARY 2021

10.8.3 OTHER DEVELOPMENTS

TABLE 132 MOLECULAR BIOLOGY ENZYMES AND KITS & REAGENTS MARKET:
OTHER DEVELOPMENTS, JULY 2018–DECEMBER 2020

11 COMPANY PROFILES

11.1 MAJOR PLAYERS

(Business Overview, Products/Solutions Offered, Recent Developments, Right to Win)*

11.1.1 THERMO FISHER SCIENTIFIC, INC.

TABLE 133 THERMO FISHER SCIENTIFIC, INC.: BUSINESS OVERVIEW

FIGURE 29 THERMO FISHER SCIENTIFIC, INC.: COMPANY SNAPSHOT (2020)

11.1.2 MERCK KGAA

TABLE 134 MERCK KGAA: BUSINESS OVERVIEW

FIGURE 30 MERCK KGAA: COMPANY SNAPSHOT (2020)

11.1.3 PROMEGA CORPORATION

TABLE 135 PROMEGA CORPORATION: BUSINESS OVERVIEW**11.1.4 NEW ENGLAND BIOLABS****TABLE 136 NEW ENGLAND BIOLABS: BUSINESS OVERVIEW****11.1.5 ILLUMINA, INC.****TABLE 137 ILLUMINA, INC.: BUSINESS OVERVIEW****FIGURE 31 ILLUMINA, INC.: COMPANY SNAPSHOT (2020)****11.1.6 TAKARA BIO, INC.****TABLE 138 TAKARA BIO, INC.: BUSINESS OVERVIEW****FIGURE 32 TAKARA BIO, INC.: COMPANY SNAPSHOT (2020)****11.1.7 QIAGEN N.V.****TABLE 139 QIAGEN N.V.: BUSINESS OVERVIEW****FIGURE 33 QIAGEN N.V.: COMPANY SNAPSHOT (2020)****11.1.8 AGILENT TECHNOLOGIES, INC.****TABLE 140 AGILENT TECHNOLOGIES: BUSINESS OVERVIEW****FIGURE 34 AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT (2020)****11.1.9 F. HOFFMANN-LA ROCHE LTD.****TABLE 141 F. HOFFMANN-LA ROCHE: BUSINESS OVERVIEW****FIGURE 35 F. HOFFMANN-LA ROCHE LTD.: COMPANY SNAPSHOT (2020)****11.1.10 BIO BASIC INC.****TABLE 142 BIO BASIC INC.: BUSINESS OVERVIEW****11.1.11 JENA BIOSCIENCE GMBH****TABLE 143 JENA BIOSCIENCE GMBH: BUSINESS OVERVIEW****11.1.12 MOLECULAR BIOLOGY RESOURCES, INC.****TABLE 144 MOLECULAR BIOLOGY RESOURCES, INC.: BUSINESS OVERVIEW****11.1.13 BIO-RAD LABORATORIES, INC.****TABLE 145 BIO-RAD LABORATORIES, INC.: BUSINESS OVERVIEW****FIGURE 36 BIO-RAD LABORATORIES, INC.: COMPANY SNAPSHOT (2020)**

*Business Overview, Products/Solutions Offered, Recent Developments, Right to Win might not be captured in case of unlisted companies.

11.2 OTHER PLAYERS**11.2.1 ZYMO RESEARCH CORPORATION****11.2.2 INTEGRATED DNA TECHNOLOGIES, INC.****11.2.3 LGC BIOSEARCH TECHNOLOGIES****11.2.4 NZYTECH, LDA. - GENES & ENZYMES****11.2.5 LUCIGEN CORPORATION****11.2.6 MOBITEC GMBH****11.2.7 GENEKAM BIOTECHNOLOGY AG****11.2.8 ALDEVRON****11.2.9 RANDOX LABORATORIES LTD.**

11.2.10 ADS BIOTEC

11.2.11 HANGZHOU MATRIDX BIOTECHNOLOGY CO. LTD.

11.2.12 GOLDSITE DIAGNOSTICS INC.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 AVAILABLE CUSTOMIZATIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

About

The global molecular biology enzymes and kits & reagents market was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX% from 2013 to 2018. This market is primarily driven by the overall increase in the R&D spending and increased research activities in the biotechnology sector. Furthermore, the molecular biology enzymes and kits & reagents market is highly consolidated. The top four players in this market are New England Biolabs, Sigma-Aldrich, Takara Bio, and Thermo Fisher Scientific. These accounted for a combined market share of over XX%.

The global molecular biology enzymes and kits & reagents market is classified on the basis of applications, end users, products, and geographies.

PCR was the largest application segment of the global molecular biology enzymes and kits & reagents market in 2013. This application segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%. On the other hand, sequencing is expected to be the fastest-growing application segment between 2013 and 2018. This application segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%.

The academic research institutes segment was the largest end-user segment of the global molecular biology enzymes and kits & reagents market in 2013. This end-user segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%. On the other hand, the hospitals and diagnostics segment is expected to be the fastest-growing end-user segment between 2013 and 2018. This end-user segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%.

Polymerases was the largest product segment of the global molecular biology enzymes market in 2013. This product segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%.

PCR was the largest product segment of the global molecular biology kits and reagents market in 2013. This product segment was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX%. Whereas, sequencing is expected to be the fastest-growing product segment between 2013 and 2018. This product segment was valued at \$XX million in 2013 and is expected to reach

\$XX million by 2018, growing at a CAGR of XX%.

Molecular biology enzymes and kits & reagents are primarily used for research applications. However, the advent of personalized medicine and decreasing costs of NGS technologies have increased their adoption for diagnostic purposes. The end-user segments included in this report are academic research institutes, hospitals and diagnostic centers, pharmaceutical and biotechnology companies, and other end users.

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