

Global Ligases Enzyme Market Size study & Forecast, by Product (Quick Ligase, T4 DNA Ligase, E. Coli DNA Ligase, and others), by Source (Archaebacterium, Escherichia Coli, Thermus Thermophilus, Pyrococcus Furiosus), by Application (Molecular Cloning, Ligation Mediated PCR, Mutation Detection and others), by End User (Research Laboratories and Institutions, Pharmaceutical and Biopharmaceutical Companies, Diagnostic Laboratories) and Regional Analysis, 2023-2030

https://marketpublishers.com/r/GB4AA6F6C2F8EN.html

Date: December 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GB4AA6F6C2F8EN

#### **Abstracts**

Global Ligases Enzyme Market is valued at approximately USD XX million in 2022 and is anticipated to grow with a healthy growth rate of more than 6.2% over the forecast period 2023-2030. Enzymes are biological catalysts that quicken chemical processes, particularly those that take place inside an organism's body. Ligases are a particular class of enzymes that hasten the fusion of two big molecules, such as DNA. These enzymes are widely employed in gene synthesis, cloning, mutation detection, and next-generation sequencing. Enzymes for DNA ligases are also employed to address human dysfunctions and deficiencies. The market for ligases enzymes is expanding as a result of increased research efforts and R&D expenditures to create ligases as potential targets for cancer therapy. Additionally, as ligases are used in the identification of infectious illnesses and birth mutations, an increase in the prevalence of infectious diseases and birth genetic abnormalities is anticipated to fuel market expansion.

The increasing prevalence of various infectious diseases and genetic birth disorders



due to its potential diagnostic and therapeutic properties. According to the WHO in 2022, an estimated 10.6 million tuberculosis cases were recorded globally in 2021. Thus, the rising frequency of TB drives the market for ligase enzymes by increasing the need for accurate and early diagnosis. Additionally, according to WHO statistics released in 2022, between January 24 and February 6, 2022, about 12,368 persons tested positive for influenza viruses, with 8,423 (68.1%) falling under the influenza A category and 3,945 (31.9%) falling under the influenza B category. There were 171 (6.4%) influenza A(H1N1) pdm09 subtypes (H3N2) and roughly 2,483 (93.6%) influenza A viruses overall. Such widespread outbreaks of infectious illnesses are predicted to increase demand for ligase enzymes and boost market expansion. Similar to this, the development of ligases as cancer therapeutic treatments is also anticipated to be one of the major market-driving drivers. Additionally, the presence of many vendors that offer ligase enzymes provides lucrative opportunities. However, the risk of the high sensitivity of the ligase enzyme stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Ligases Enzyme Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to well-established end-user sectors such as molecular biology laboratories, research institutions, and pharmaceutical corporations. For instance, according to CDC statistics in March 2022, TB incidence in the United States grew by 9.4% from 2020 to 2021. In addition, the VDH article published in 2022 said that the incidence rate of TB in Mexico was approximately 20 per 100,000 people per year. Furthermore, the Tand F Journal study released in March 2022 said that the yearly incidence rate of TB among the Canadian population was 4.7 per 100,000 people. Such increasing infectious illness rates are likely to fuel demand for ligase enzymes, adding to market expansion over the forecast period. Anticipated substantial growth in the Asia Pacific region during the forecast period is attributed to noteworthy advancements in technological integration and rapid healthcare development in Japan and China. The presence of robust clinical development frameworks, coupled with increasing research and development activities in emerging economies like Australia and India, presents significant opportunities. This scenario is expected to contribute to the overall market growth in the Asia Pacific region throughout the forecast period.

Major market player included in this report are:
Agilent Technologies Inc.
Arctic Zymes Technologies ASA
Bio-Rad Laboratories Inc.
BLIRT S.A.
Codexis Inc.



F. Hoffmann-La Roche Ltd.
Inspiralis Limited
The Merck Group
New England Biolabs (UK) Ltd.
Promega Corporation

# Recent Developments in the Market:

In June 2022, Nurix Therapeutics Launches Expansion Cohort Evaluating NX-2127 in CLL. Nurix Therapeutics has started an ongoing phase 1 study (NCT04830137) to investigate the immunomodulatory oral BTK inhibitor NX-2127. Patients with chronic lymphocytic leukaemia (CLL) expected to be the focus of this trial, the first of three phase 1b expansion cohorts investigating NX-2121.

In June 2022, QIAGEN N.V. has disclosed its agreements to secure a 96% majority ownership stake in BLIRT SA (Polish Stock Exchange: BLR), a Gdansk, Poland-based manufacturer specializing in recombinant enzymes for the life science industry. This strategic acquisition of BLIRT by QIAGEN introduces synergistic capabilities, enhancing growth prospects for the enzymes and reagents business.

Global Ligases Enzyme Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product, Source, Application, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:



By Product: **Quick Ligase** T4 DNA Ligase E. Coli DNA Ligase Others By Source: Archaebacterium Escherichia Coli Thermus Thermophilus Pyrococcus Furiosus By Application: Molecular Cloning Ligation Mediated PCR **Mutation Detection** Others By End User: Research Laboratories and Institutions Pharmaceutical and Biopharmaceutical Companies Diagnostic Laboratories By Region: North America U.S. Canada Europe UK Germany France Spain Italy ROE Asia Pacific

China

India

Japan

Australia



South Korea RoAPAC

Latin America Brazil Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa



# **Contents**

#### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Million)
  - 1.2.1. Ligases Enzyme Market, by Region, 2020-2030 (USD Million)
- 1.2.2. Ligases Enzyme Market, by Product, 2020-2030 (USD Million)
- 1.2.3. Ligases Enzyme Market, by Source, 2020-2030 (USD Million)
- 1.2.4. Ligases Enzyme Market, by Application, 2020-2030 (USD Million)
- 1.2.5. Ligases Enzyme Market, by End User, 2020-2030 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

# CHAPTER 2. GLOBAL LIGASES ENZYME MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Industry Evolution
  - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL LIGASES ENZYME MARKET DYNAMICS**

- 3.1. Ligases Enzyme Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Increase in Prevalence of Birth Genetic Disorders and Infectious Diseases
    - 3.1.1.2. Rising Research Activities for Sequencing Applications
  - 3.1.2. Market Challenges
  - 3.1.2.1. Risk of High Sensitivity of the Enzyme
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Increasing involvement of enzymes in protein engineering

#### CHAPTER 4. GLOBAL LIGASES ENZYME MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers



- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
- 4.3.3. Social
- 4.3.4. Technological
- 4.3.5. Environmental
- 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

# CHAPTER 5. GLOBAL LIGASES ENZYME MARKET, BY PRODUCT

- 5.1. Market Snapshot
- 5.2. Global Ligases Enzyme Market by Product, Performance Potential Analysis
- 5.3. Global Ligases Enzyme Market Estimates & Forecasts by Product 2020-2030 (USD Million)
- 5.4. Ligases Enzyme Market, Sub Segment Analysis
  - 5.4.1. Quick Ligase
  - 5.4.2. T4 DNA Ligase
  - 5.4.3. E. Coli DNA Ligase
  - 5.4.4. others

# CHAPTER 6. GLOBAL LIGASES ENZYME MARKET, BY SOURCE

- 6.1. Market Snapshot
- 6.2. Global Ligases Enzyme Market by Source, Performance Potential Analysis
- 6.3. Global Ligases Enzyme Market Estimates & Forecasts by Source 2020-2030 (USD Million)
- 6.4. Ligases Enzyme Market, Sub Segment Analysis
  - 6.4.1. Archaebacterium



- 6.4.2. Escherichia Coli
- 6.4.3. Thermus Thermophilus
- 6.4.4. Pyro coccus Furiosus

## CHAPTER 7. GLOBAL LIGASES ENZYME MARKET, BY APPLICATION

- 7.1. Market Snapshot
- 7.2. Global Ligases Enzyme Market by Application, Performance Potential Analysis
- 7.3. Global Ligases Enzyme Market Estimates & Forecasts by Application 2020-2030 (USD Million)
- 7.4. Ligases Enzyme Market, Sub Segment Analysis
  - 7.4.1. Molecular Cloning
  - 7.4.2. Ligation Mediated PCR
  - 7.4.3. Mutation Detection
  - 7.4.4. others

## CHAPTER 8. GLOBAL LIGASES ENZYME MARKET, BY END USER

- 8.1. Market Snapshot
- 8.2. Global Ligases Enzyme Market by End User, Performance Potential Analysis
- 8.3. Global Ligases Enzyme Market Estimates & Forecasts by End User 2020-2030 (USD Million)
- 8.4. Ligases Enzyme Market, Sub Segment Analysis
  - 8.4.1. Research Laboratories and Institutions
  - 8.4.2. Pharmaceutical and Biopharmaceutical Companies
  - 8.4.3. Diagnostic Laboratories

## CHAPTER 9. GLOBAL LIGASES ENZYME MARKET, REGIONAL ANALYSIS

- 9.1. Top Leading Countries
- 9.2. Top Emerging Countries
- 9.3. Ligases Enzyme Market, Regional Market Snapshot
- 9.4. North America Ligases Enzyme Market
  - 9.4.1. U.S. Ligases Enzyme Market
  - 9.4.1.1. Product breakdown estimates & forecasts, 2020-2030
  - 9.4.1.2. Source breakdown estimates & forecasts, 2020-2030
  - 9.4.1.3. Application breakdown estimates & forecasts, 2020-2030
  - 9.4.1.4. End User breakdown estimates & forecasts, 2020-2030
  - 9.4.2. Canada Ligases Enzyme Market



- 9.5. Europe Ligases Enzyme Market Snapshot
  - 9.5.1. U.K. Ligases Enzyme Market
  - 9.5.2. Germany Ligases Enzyme Market
  - 9.5.3. France Ligases Enzyme Market
  - 9.5.4. Spain Ligases Enzyme Market
  - 9.5.5. Italy Ligases Enzyme Market
  - 9.5.6. Rest of Europe Ligases Enzyme Market
- 9.6. Asia-Pacific Ligases Enzyme Market Snapshot
  - 9.6.1. China Ligases Enzyme Market
  - 9.6.2. India Ligases Enzyme Market
  - 9.6.3. Japan Ligases Enzyme Market
  - 9.6.4. Australia Ligases Enzyme Market
  - 9.6.5. South Korea Ligases Enzyme Market
- 9.6.6. Rest of Asia Pacific Ligases Enzyme Market
- 9.7. Latin America Ligases Enzyme Market Snapshot
  - 9.7.1. Brazil Ligases Enzyme Market
  - 9.7.2. Mexico Ligases Enzyme Market
- 9.8. Middle East & Africa Ligases Enzyme Market
  - 9.8.1. Saudi Arabia Ligases Enzyme Market
  - 9.8.2. South Africa Ligases Enzyme Market
- 9.8.3. Rest of Middle East & Africa Ligases Enzyme Market

#### **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Company
  - 10.1.2. Company
  - 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
  - 10.3.1. Agilent Technologies Inc.
    - 10.3.1.1. Key Information
  - 10.3.1.2. Overview
  - 10.3.1.3. Financial (Subject to Data Availability)
  - 10.3.1.4. Product Summary
  - 10.3.1.5. Recent Developments
  - 10.3.2. Arctic Zymes Technologies ASA
  - 10.3.3. Bio-Rad Laboratories Inc.
  - 10.3.4. BLIRT S.A.



- 10.3.5. Codexis Inc.
- 10.3.6. F. Hoffmann-La Roche Ltd.
- 10.3.7. Inspiralis Limited
- 10.3.8. The Merck Group
- 10.3.9. New England Biolabs (UK) Ltd.
- 10.3.10. Promega Corporation

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
  - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption



# **List Of Tables**

#### LIST OF TABLES

- TABLE 1. Global Ligases Enzyme Market, report scope
- TABLE 2. Global Ligases Enzyme Market estimates & forecasts by Region 2020-2030 (USD Million)
- TABLE 3. Global Ligases Enzyme Market estimates & forecasts by Product 2020-2030 (USD Million)
- TABLE 4. Global Ligases Enzyme Market estimates & forecasts by Source 2020-2030 (USD Million)
- TABLE 5. Global Ligases Enzyme Market estimates & forecasts by Application 2020-2030 (USD Million)
- TABLE 6. Global Ligases Enzyme Market estimates & forecasts by End User 2020-2030 (USD Million)
- TABLE 7. Global Ligases Enzyme Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 8. Global Ligases Enzyme Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 9. Global Ligases Enzyme Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 10. Global Ligases Enzyme Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 11. Global Ligases Enzyme Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 12. Global Ligases Enzyme Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 13. Global Ligases Enzyme Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 14. Global Ligases Enzyme Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 15. Global Ligases Enzyme Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 16. Global Ligases Enzyme Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 17. U.S. Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 18. U.S. Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)



- TABLE 19. U.S. Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 20. Canada Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 21. Canada Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 22. Canada Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 23. UK Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 24. UK Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 25. UK Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 26. Germany Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 27. Germany Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 28. Germany Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 29. France Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 30. France Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 31. France Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 32. Italy Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 33. Italy Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 34. Italy Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 35. Spain Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 36. Spain Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 37. Spain Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 38. RoE Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)



- TABLE 39. RoE Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 40. RoE Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 41. China Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 42. China Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 43. China Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 44. India Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 45. India Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 46. India Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 47. Japan Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 48. Japan Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 49. Japan Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 50. South Korea Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 51. South Korea Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 52. South Korea Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 53. Australia Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 54. Australia Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 55. Australia Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 56. RoAPAC Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 57. RoAPAC Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 58. RoAPAC Ligases Enzyme Market estimates & forecasts by segment



2020-2030 (USD Million)

TABLE 59. Brazil Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 60. Brazil Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 61. Brazil Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 62. Mexico Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 63. Mexico Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 64. Mexico Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 65. RoLA Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 66. RoLA Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 67. RoLA Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 68. Saudi Arabia Ligases Enzyme Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 69. South Africa Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 70. RoMEA Ligases Enzyme Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 71. List of secondary sources, used in the study of global Ligases Enzyme Market

TABLE 72. List of primary sources, used in the study of global Ligases Enzyme Market

TABLE 73. Years considered for the study

TABLE 74. Exchange rates considered

List of tables and figures are dummy in nature, final lists may vary in the final deliverable



# **List Of Figures**

#### LIST OF FIGURES

- FIG 1. Global Ligases Enzyme Market, research methodology
- FIG 2. Global Ligases Enzyme Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Ligases Enzyme Market, key trends 2022
- FIG 5. Global Ligases Enzyme Market, growth prospects 2023-2030
- FIG 6. Global Ligases Enzyme Market, porters 5 force model
- FIG 7. Global Ligases Enzyme Market, pest analysis
- FIG 8. Global Ligases Enzyme Market, value chain analysis
- FIG 9. Global Ligases Enzyme Market by segment, 2020 & 2030 (USD Million)
- FIG 10. Global Ligases Enzyme Market by segment, 2020 & 2030 (USD Million)
- FIG 11. Global Ligases Enzyme Market by segment, 2020 & 2030 (USD Million)
- FIG 12. Global Ligases Enzyme Market by segment, 2020 & 2030 (USD Million)
- FIG 13. Global Ligases Enzyme Market by segment, 2020 & 2030 (USD Million)
- FIG 14. Global Ligases Enzyme Market, regional snapshot 2020 & 2030
- FIG 15. North America Ligases Enzyme Market 2020 & 2030 (USD Million)
- FIG 16. Europe Ligases Enzyme Market 2020 & 2030 (USD Million)
- FIG 17. Asia pacific Ligases Enzyme Market 2020 & 2030 (USD Million)
- FIG 18. Latin America Ligases Enzyme Market 2020 & 2030 (USD Million)
- FIG 19. Middle East & Africa Ligases Enzyme Market 2020 & 2030 (USD Million)
- List of tables and figures are dummy in nature, final lists may vary in the final deliverable



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