

# **Global Enzymatic DNA Synthesis Market: Analysis By Product Type (DNA Library Synthesis and Custom DNA Synthesis), By Technology (PCR, CRISPR, SOLA and Others), By Application (Synthetic Biology, Therapeutic Antibodies, Genetic Engineering, Vaccine Design, and Other), By End User (Biotech and Pharmaceutical Companies, Academic and Research Institutes, Diagnostic Laboratories, and Others), By Region, Size and Trends with Impact of COVID-19 and Forecast up to 2028**

<https://marketpublishers.com/r/GEEE7E66155EEN.html>

Date: November 2023

Pages: 157

Price: US\$ 2,350.00 (Single User License)

ID: GEEE7E66155EEN

## **Abstracts**

The global enzymatic DNA synthesis market was valued at US\$253.42 million in 2022, and is expected to be worth US\$2.11 billion in 2028. Enzymatic DNA synthesis involves the generation of DNA strands through the use of enzymes instead of conventional chemical techniques. DNA polymerases, a class of enzymes, play a pivotal role in this process by catalyzing the formation of phosphodiester bonds between nucleotides, resulting in the creation of a novel DNA strand. Enzymatic synthesis methods, closely resembling natural DNA replication, utilize enzymes such as TdT, eliminating the need for a template unlike DNA polymerase. This process involves piecing together individual nucleotides to form double-stranded DNA molecules. While resembling chemical synthesis in nucleotide coupling and terminator removal, enzymatic synthesis is primed for the next round of nucleotide addition. Despite its non-toxic nature, enzymatic methods currently fall slightly short of the accuracy achieved by chemical methods in producing oligonucleotides.

Several trends are expected to shape the production and demand for enzymatic DNA synthesis. Automation of the workflow is likely to become more prevalent, enhancing efficiency and reducing the need for manual labor. Continued research and development efforts are anticipated to lead to the development of more efficient enzymes and technologies, further improving the precision and scalability of the process. Furthermore, enzymatic DNA synthesis is likely to find integration with other molecular biology techniques, such as CRISPR/Cas9, for applications in gene editing and genome engineering. The enzymatic DNA synthesis market is expected to grow at a CAGR of 42.43% over the years 2023-2028.

#### Market Segmentation Analysis:

**By Product Type:** The report identifies two segments on the basis of product type: DNA Library Synthesis, and Custom DNA Synthesis. DNA Library Synthesis sector held the highest share in the market in 2022. Library Synthesis is a product and service offering that is particularly important in the field of genomics, functional genomics, and proteomics research. As genomic research continues to advance, the need for high-quality DNA libraries has increased. Researchers require well-constructed libraries to conduct experiments and uncover valuable insights, which is driving the growth of the segment. Furthermore, studying the function of genes and their role in various cellular processes is essential for understanding diseases and developing therapies. DNA libraries support functional genomics research.

**By Technology:** The report provides the bifurcation of enzymatic DNA synthesis market into four segments on the basis of technology: PCR (Polymerase Chain Reaction), CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats), SOLA (Synthetic Oligonucleotide Ligation-Activated DNA synthesis), and Others. The PCR (Polymerase Chain Reaction) segment dominated the market in 2022. PCR is pivotal in DNA synthesis, particularly for amplifying specific DNA sequences through cycles of denaturation, annealing, and extension, ensuring exponential DNA amplification. Its applications span genotyping, DNA sequencing, and molecular diagnostics, driven by speed, accuracy, and versatility. PCR is indispensable for tasks such as identifying genetic mutations, detecting infectious agents, and conducting gene expression analysis. High demand persists due to its vital role in biological research, applied sciences, and clinical diagnostics, making it a preferred choice among researchers and clinicians for its efficiency and reliability.

**By Application:** The report provides the bifurcation of enzymatic DNA synthesis market into five segments on the basis of application: Synthetic Biology, Therapeutic

Antibodies, Genetic Engineering, Vaccine Design, and Other. Synthetic biology segment dominated the market in 2022. This segment's adoption is driven by the need for creating synthetic genes, pathways, and organisms for biotechnological, medical, and industrial purposes. Factors such as the increasing demand for genetically modified organisms (GMOs), biofuels, and the development of novel biopharmaceuticals are propelling the growth of enzymatic DNA synthesis in the field of synthetic biology.

**By End User:** The report identifies four segments on the basis of end users: Biotech and Pharmaceutical Companies, Academic and Research Institutes, Diagnostic Laboratories, and Others. Academic and research institutes segment is expected to grow at the fastest CAGR during the forecasted period. The adoption of enzymatic DNA synthesis in this segment is likely to be driven by the continuous quest for scientific knowledge and the need to develop innovative solutions. Funding from government agencies and academic grants further supports the demand for DNA synthesis technologies in academic and research settings.

**By Region:** In the report, the global enzymatic DNA synthesis market is divided into five regions: North America, Europe, Asia Pacific, Latin America and Middle East & Africa. North America accounted for the largest share in the global enzymatic DNA synthesis market in 2022. This region boasts a rich ecosystem comprising a multitude of pharmaceutical and biotechnology giants, esteemed academic institutions, and cutting-edge research centers, all of which collectively propel the demand for DNA synthesis. At the forefront of biotech research, North America leads the world with significant investments in research and development (R&D), resulting in a substantial appetite for DNA synthesis products. Furthermore, the region's robust healthcare infrastructure adds to this demand, especially in the realms of diagnostics and personalized medicine, both of which heavily rely on enzymatic DNA synthesis.

The Asia Pacific region is expected to be the fastest-growing market. The region has witnessed a remarkable expansion of its biotechnology and life sciences sector. Countries like China, India, Japan, and South Korea have been making substantial investments in research and development, particularly in the fields of genomics, personalized medicine, and genetic research. This surge in scientific activity has naturally led to an increased demand for enzymatic DNA synthesis techniques, which are critical for precisely assembling DNA strands in these cutting-edge areas of research. Moreover, the Asia-Pacific region is home to numerous prestigious academic and research institutions that have been actively engaged in genetic and molecular biology research. These institutions are driving the demand for DNA synthesis as their researchers work on a wide array of projects, spanning from disease diagnostics to

advancements in agriculture and environmental studies.

#### Market Dynamics:

**Growth Drivers:** The market has been growing over the past few years, due to factors such as rising prevalence of genetic disorders, advancements in enzymes and technologies, customization and precision, synthetic biology applications and increasing demand for DNA. Recognized genetic disorders like Down syndrome, autism spectrum disorder, cancer, diabetes, cystic fibrosis, and sickle cell anemia are just a fraction of the 10,000 known rare diseases, impacting around 400 million people globally. While some disorders show symptoms at birth, others emerge gradually. The global burden of genetic diseases is growing. Enzymatic DNA synthesis, widely used in synthetic biology, genetic engineering, and therapeutic antibody research, proves valuable. Coupled with enzymatic assays, it enhances diagnostic capabilities, providing crucial insights into susceptibility to genetic disorders. This facilitates informed decisions on diagnosis and treatment, acknowledging the rising need for early detection and driving the enzymatic DNA synthesis market.

**Challenges:** However, some challenges are also impeding the growth of the market such as stringent government regulations and guidelines and high costs and complex procedures. This powerful technology holds the potential for transformative advancements in healthcare, agriculture, and biotechnology. However, it comes with inherent risks, including the potential creation of harmful pathogens or unethical misuse. Consequently, government authorities require DNA synthesis facilities and researchers to obtain licenses and register with relevant regulatory bodies. Additionally, oversight entities may mandate regular reporting of DNA synthesis activities, including details like synthesized DNA sequences, the purpose of synthesis, and quantities produced. While these measures aim to mitigate risks, they may, to some extent, hinder market growth.

**Trends:** The market is projected to grow at a fast pace during the forecast period, due to various latest trends such as emerging fields, CRISPR-Cas9 integration and cell-free synthetic biology. CRISPR-Cas9 Integration is emerging as a groundbreaking trend in the enzymatic synthesis market, revolutionizing the way DNA is manipulated. This technology, originally developed for gene editing, is now being harnessed to enhance enzymatic synthesis processes. One of the key advantages of integrating CRISPR-Cas9 into enzymatic synthesis is its precision. Cas9, guided by a specific RNA sequence, can precisely target and cut DNA at desired locations, allowing for the insertion, deletion, or modification of genetic material with high accuracy. This precision is invaluable in creating customized enzymes for various applications, such as

pharmaceuticals, biofuels, and biotechnology.

#### Impact Analysis of COVID-19 and Way Forward:

The enzymatic DNA synthesis market experienced a nuanced impact from the COVID-19 pandemic. Initially, disruptions in global supply chains and laboratory closures created delays in research projects, leading to a temporary decline in demand for enzymatic DNA synthesis services. However, the crisis highlighted the crucial role of rapid DNA synthesis in vaccine development, diagnostic test kits, and virus-related genomic studies. As the pandemic unfolded, companies in the sector adapted by embracing remote work, automation, and stringent safety measures, enhancing industry resilience. Additionally, the growing demand for customized DNA constructs for vaccine and therapeutic research expedited the adoption of enzymatic DNA synthesis techniques. Furthermore, the trend toward personalized medicine continues to drive the demand for customized DNA constructs, which is being further facilitated by enzymatic DNA synthesis.

#### Competitive Landscape:

The enzymatic DNA synthesis market exhibits consolidation, marked by fierce competition among leading players striving to expand their market share globally. The sector experiences an influx of startups, each presenting innovative solutions to address DNA construction challenges. Companies in the DNA synthesis sector can be evaluated based on key metrics such as cost, throughput, turnaround time, quality, and accessibility. Cost, often the primary customer consideration, has the potential to shift buyers from in-house DNA production to outsourcing. As the utility of synthetic DNA grows, throughput becomes crucial, necessitating customers to split orders among suppliers, introducing complexity and error risks.

The key players of the global enzymatic DNA synthesis market are:

Telesis Bio Inc.  
Twist Bioscience Corporation  
GenScript Biotech Corp.  
Evonetix  
Ansa Biotechnologies, Inc.  
Camena Bio  
Molecular Assemblies  
DNA Script

Touchlight  
Kern Systems

Technological advancements play a pivotal role in shaping the competitive landscape, with companies dedicating efforts to research and develop novel enzymes and processes. The focus is on improving the speed, accuracy, and efficiency of DNA synthesis. This dynamic environment underscores the industry's commitment to staying at the forefront of scientific and technological progress, fostering a continual drive for innovation and excellence. In April 2022, DNA Script introduced a program catering to customers using its SYNTAX System. Through this initiative, organizations gain early access to the most recent developments in their EDS technology.

## Contents

### 1. EXECUTIVE SUMMARY

### 2. INTRODUCTION

#### 2.1 Enzymatic DNA Synthesis: An Overview

##### 2.1.1 Two Widely Used Methods of Enzymatic DNA Assembly

#### 2.2 Enzymatic DNA Synthesis: An Overview

##### 2.2.1 Enzymatic DNA Synthesis Segmentation

### 3. GLOBAL MARKET ANALYSIS

#### 3.1 Global Enzymatic DNA Synthesis Market: An Analysis

##### 3.1.1 Global Enzymatic DNA Synthesis Market: An Overview

##### 3.1.2 Global Enzymatic DNA Synthesis Market by Value

##### 3.1.3 Global Enzymatic DNA Synthesis Market by Product Type (DNA Library Synthesis and Custom DNA Synthesis)

##### 3.1.4 Global Enzymatic DNA Synthesis Market by Technology (PCR, CRISPR, SOLA and Others)

##### 3.1.5 Global Enzymatic DNA Synthesis Market by Application (Synthetic Biology, Therapeutic Antibodies, Genetic Engineering, Vaccine Design, and Other)

##### 3.1.6 Global Enzymatic DNA Synthesis Market by End Users (Biotech and Pharmaceutical Companies, Academic and Research Institutes, Diagnostic Laboratories, and Others)

##### 3.1.7 Global Enzymatic DNA Synthesis Market by Region (North America, Europe, Asia Pacific, Latin America and Middle East & Africa)

#### 3.2 Global Enzymatic DNA Synthesis Market: Product Type Analysis

##### 3.2.1 Global Enzymatic DNA Synthesis Market by Product Type: An Overview

##### 3.2.2 Global DNA Library Enzymatic DNA Synthesis Market by Value

##### 3.2.3 Global Custom Enzymatic DNA Synthesis Market by Value

#### 3.3 Global Enzymatic DNA Synthesis Market: Technology Analysis

##### 3.3.1 Global Enzymatic DNA Synthesis Market by Technology: An Overview

##### 3.3.2 Global PCR Enzymatic DNA Synthesis Market by Value

##### 3.3.3 Global CRISPR Enzymatic DNA Synthesis Market by Value

##### 3.3.4 Global SOLA Enzymatic DNA Synthesis Market by Value

##### 3.3.5 Global Other Enzymatic DNA Synthesis Technologies Market by Value

#### 3.4 Global Enzymatic DNA Synthesis Market: Application Analysis

- 3.4.1 Global Enzymatic DNA Synthesis Market by Application: An Overview
- 3.4.2 Global Synthetic Biology Enzymatic DNA Synthesis Market by Value
- 3.4.3 Global Therapeutic Antibodies Enzymatic DNA Synthesis Market by Value
- 3.4.4 Global Vaccine Design Enzymatic DNA Synthesis Market by Value
- 3.4.5 Global Genetic Engineering Enzymatic DNA Synthesis Market by Value
- 3.4.6 Global Other Enzymatic DNA Synthesis Applications Market by Value
- 3.5 Global Enzymatic DNA Synthesis Market: End User Analysis
  - 3.5.1 Global Enzymatic DNA Synthesis Market by End User: An Overview
  - 3.5.2 Global Biotech and Pharmaceutical Companies Enzymatic DNA Synthesis Market by Value
  - 3.5.3 Global Academic and Research Institutes Enzymatic DNA Synthesis Market by Value
  - 3.5.4 Global Diagnostic Laboratories Enzymatic DNA Synthesis Market by Value
  - 3.5.5 Global Other Enzymatic DNA Synthesis End Users Market by Value

## **4. REGIONAL MARKET ANALYSIS**

- 4.1 North America Enzymatic DNA Synthesis Market: An Analysis
  - 4.1.1 North America Enzymatic DNA Synthesis Market: An Overview
  - 4.1.2 North America Enzymatic DNA Synthesis Market by Value
  - 4.1.3 North America Enzymatic DNA Synthesis Market by Region (The US, Canada and Mexico)
  - 4.1.4 The US Enzymatic DNA Synthesis Market by Value
  - 4.1.5 Canada Enzymatic DNA Synthesis Market by Value
  - 4.1.6 Mexico Enzymatic DNA Synthesis Market by Value
- 4.2 Europe Enzymatic DNA Synthesis Market: An Analysis
  - 4.2.1 Europe Enzymatic DNA Synthesis Market: An Overview
  - 4.2.2 Europe Enzymatic DNA Synthesis Market by Value
  - 4.2.3 Europe Enzymatic DNA Synthesis Market by Region (Germany, Uk, France, Italy, Spain and Rest of Europe)
  - 4.2.4 Germany Enzymatic DNA Synthesis Market by Value
  - 4.2.5 United Kingdom Enzymatic DNA Synthesis Market by Value
  - 4.2.6 France Enzymatic DNA Synthesis Market by Value
  - 4.2.7 Italy Enzymatic DNA Synthesis Market by Value
  - 4.2.8 Spain Enzymatic DNA Synthesis Market by Value
  - 4.2.9 Rest of Europe Enzymatic DNA Synthesis Market by Value
- 4.3 Asia Pacific Enzymatic DNA Synthesis Market: An Analysis
  - 4.3.1 Asia Pacific Enzymatic DNA Synthesis Market: An Overview
  - 4.3.2 Asia Pacific Enzymatic DNA Synthesis Market by Value



4.3.3 Asia Pacific Enzymatic DNA Synthesis Market by Region (China, Japan, India, South Korea and Rest of Asia Pacific)

4.3.4 China Enzymatic DNA Synthesis Market by Value

4.3.5 Japan Enzymatic DNA Synthesis Market by Value

4.3.6 India Enzymatic DNA Synthesis Market by Value

4.3.7 South Korea Enzymatic DNA Synthesis Market by Value

4.3.8 Rest of Asia Pacific Enzymatic DNA Synthesis Market by Value

4.4 Latin America Enzymatic DNA Synthesis Market: An Analysis

4.4.1 Latin America Enzymatic DNA Synthesis Market: An Overview

4.4.2 Latin America Enzymatic DNA Synthesis Market by Value

4.5 Middle East & Africa Enzymatic DNA Synthesis Market: An Analysis

4.5.1 Middle East & Africa Enzymatic DNA Synthesis Market: An Overview

4.5.2 Middle East & Africa Enzymatic DNA Synthesis Market by Value

## **5. IMPACT OF COVID-19**

5.1 Impact of COVID-19

5.1.1 Impact of COVID-19 on Global Enzymatic DNA Synthesis Market

5.1.2 Post-COVID Scenario

## **6. MARKET DYNAMICS**

6.1 Growth Drivers

6.1.1 Rising Prevalence of Genetic Disorders

6.1.2 Advancements in Enzymes and Technologies

6.1.3 Customization and Precision

6.1.4 Growing Applications in Synthetic Biology

6.1.5 Increasing Demand for DNA

6.2 Challenges

6.2.1 Stringent Government Regulations and Guidelines

6.2.2 High Costs and Complex Procedures

6.3 Market Trends

6.3.1 Emerging Fields

6.3.2 CRISPR-Cas9 Integration

6.3.3 Cell-Free Synthetic Biology

## **7. COMPETITIVE LANDSCAPE**

7.1 Global Enzymatic DNA Synthesis Market Players: Competitive landscape

## 7.2 Global Enzymatic DNA Synthesis Market Players: Recent Funding Rounds

### **8. COMPANY PROFILES**

#### 8.1 Telesis Bio, Inc.

- 8.1.1 Business Overview
- 8.1.2 Revenue by Category
- 8.1.3 Business Strategies

#### 8.2 Twist Bioscience Corporation

- 8.2.1 Business Overview
- 8.2.2 Revenue by Product
- 8.2.3 Business Strategies

#### 8.3 Genscript Biotech Corporation

- 8.3.1 Business Overview
- 8.3.2 Operating Segments
- 8.3.3 Business Strategies

#### 8.4 Evonetix

- 8.4.1 Business Overview
- 8.4.2 Business Strategies

#### 8.5 Ansa Biotechnologies, Inc.

- 8.5.1 Business Overview
- 8.5.2 Business Strategies

#### 8.6 Camena Bioscience

- 8.6.1 Business Overview
- 8.6.2 Business Strategies

#### 8.7 Molecular Assemblies

- 8.7.1 Business Overview
- 8.7.2 Business Strategies

#### 8.8 DNA Script

- 8.8.1 Business Overview
- 8.8.2 Business Strategies

#### 8.9 Touchlight

- 8.9.1 Business Overview
- 8.9.2 Business Strategies

#### 8.10 Kern Systems

- 8.10.1 Business Overview
- 8.10.2 Business Strategies

## List Of Figures

### LIST OF FIGURES

Figure 1: Advantages of Enzymatic DNA Synthesis

Figure 2: Two Widely Used Methods of Enzymatic DNA Assembly

Figure 3: Enzymatic DNA Synthesis Segmentation

Figure 4: Global Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 5: Global Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Billion)

Figure 6: Global Enzymatic DNA Synthesis Market by Product Type; 2022 (Percentage, %)

Figure 7: Global Enzymatic DNA Synthesis Market by Technology; 2022 (Percentage, %)

Figure 8: Global Enzymatic DNA Synthesis Market by Application; 2022 (Percentage, %)

Figure 9: Global Enzymatic DNA Synthesis Market by End Users; 2022 (Percentage, %)

Figure 10: Global Enzymatic DNA Synthesis Market by Region; 2022 (Percentage, %)

Figure 11: Global DNA Library Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 12: Global DNA Library Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 13: Global Custom Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 14: Global Custom Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 15: Global PCR Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 16: Global PCR Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 17: Global CRISPR Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 18: Global CRISPR Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 19: Global SOLA Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 20: Global SOLA Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 21: Global Other Enzymatic DNA Synthesis Technologies Market by Value; 2018-2022 (US\$ Million)

Figure 22: Global Other Enzymatic DNA Synthesis Technologies Market by Value; 2023-2028 (US\$ Million)

Figure 23: Global Synthetic Biology Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 24: Global Synthetic Biology Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 25: Global Therapeutic Antibodies Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 26: Global Therapeutic Antibodies Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 27: Global Vaccine Design Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 28: Global Vaccine Design Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 29: Global Genetic Engineering Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 30: Global Genetic Engineering Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 31: Global Other Enzymatic DNA Synthesis Applications Market by Value; 2018-2022 (US\$ Million)

Figure 32: Global Other Enzymatic DNA Synthesis Applications Market by Value; 2023-2028 (US\$ Million)

Figure 33: Global Biotech and Pharmaceutical Companies Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 34: Global Biotech and Pharmaceutical Companies Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 35: Global Academic and Research Institutes Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 36: Global Academic and Research Institutes Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 37: Global Diagnostic Laboratories Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 38: Global Diagnostic Laboratories Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 39: Global Other Enzymatic DNA Synthesis End Users Automation Market by Value; 2018-2022 (US\$ Million)

Figure 40: Global Other Enzymatic DNA Synthesis End Users Market by Value; 2023-2028 (US\$ Million)

Figure 41: North America Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Million)

Figure 42: North America Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 43: North America Enzymatic DNA Synthesis Market by Region; 2022 (Percentage, %)

Figure 44: The US Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 45: The US Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 46: Canada Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 47: Canada Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 48: Mexico Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 49: Mexico Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 50: Europe Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 51: Europe Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 52: Europe Enzymatic DNA Synthesis Market by Region; 2022 (Percentage, %)

Figure 53: Germany Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 54: Germany Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 55: United Kingdom Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 56: United Kingdom Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 57: France Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 58: France Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 59: Italy Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 60: Italy Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 61: Spain Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 62: Spain Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 63: Rest of Europe Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 64: Rest of Europe Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 65: Asia Pacific Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 66: Asia Pacific Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 67: Asia Pacific Enzymatic DNA Synthesis Market by Region; 2022 (Percentage, %)

%)

Figure 68: China Enzymatic DNA Synthesis Market by Value, 2018-2022 (US\$ Million)

Figure 69: China Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 70: Japan Enzymatic DNA Synthesis Market by Value, 2018-2022 (US\$ Million)

Figure 71: Japan Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 72: India Enzymatic DNA Synthesis Market by Value, 2018-2022 (US\$ Million)

Figure 73: India Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 74: South Korea Enzymatic DNA Synthesis Market by Value, 2018-2022 (US\$ Million)

Figure 75: South Korea Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 76: Rest of Asia Pacific Enzymatic DNA Synthesis Market by Value, 2018-2022 (US\$ Million)

Figure 77: Rest of Asia Pacific Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 78: Latin America Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 79: Latin America Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 80: Middle East & Africa Enzymatic DNA Synthesis Market by Value; 2018-2022 (US\$ Million)

Figure 81: Middle East & Africa Enzymatic DNA Synthesis Market by Value; 2023-2028 (US\$ Million)

Figure 82: The US New Cancer Cases; 2019-2023 (Thousand)

Figure 83: Telesis Bio, Inc. Revenue by Category; 2022 (Percentage, %)

Figure 84: Twist Bioscience Corporation Revenue by Product; 2022 (Percentage, %)

Figure 85: Genscript Biotech Corporation Revenue by Segments; 2022 (Percentage, %)

Table 1: Global Enzymatic DNA Synthesis Market Players: Recent Funding Rounds

## I would like to order

Product name: Global Enzymatic DNA Synthesis Market: Analysis By Product Type (DNA Library Synthesis and Custom DNA Synthesis), By Technology (PCR, CRISPR, SOLA and Others), By Application (Synthetic Biology, Therapeutic Antibodies, Genetic Engineering, Vaccine Design, and Other), By End User (Biotech and Pharmaceutical Companies, Academic and Research Institutes, Diagnostic Laboratories, and Others), By Region, Size and Trends with Impact of COVID-19 and Forecast up to 2028

Product link: <https://marketpublishers.com/r/GEEE7E66155EEN.html>

Price: US\$ 2,350.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GEEE7E66155EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970