

Asia Pacific Enzymatic DNA Synthesis Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Product Type (Custom DNA Synthesis and DNA Library Synthesis), Application (Synthetic Biology, Genetic Engineering, Therapeutic Antibodies, Vaccine Design, and Others), and End User (Academic & Research Institutes, Biotech & Pharmaceutical Companies, Diagnostic Laboratories, and Others)

<https://marketpublishers.com/r/AD87C6A610E4EN.html>

Date: April 2023

Pages: 129

Price: US\$ 3,000.00 (Single User License)

ID: AD87C6A610E4EN

Abstracts

The Asia Pacific enzymatic DNA synthesis market is expected to grow from US\$ 29.18 million in 2022 to US\$ 301.49 million by 2028. It is estimated to register a CAGR of 47.6% from 2022 to 2028.

Rising Number of Product Launches Drives Asia Pacific Enzymatic DNA Synthesis Market Growth

Advancements in medical technologies and an increase in investments in R&D by manufacturers have resulted in the launch of various modern systems for genetic and molecular biology studies. Companies in the Asia Pacific enzymatic DNA synthesis market are involved in different product development activities.

In April 2022, DNA Script launched a new program for the customers of its SYNTAX System. Under this program, organizations receive early access to the latest advancements in their EDS technology. Dubbed the DNA Scriptors Early Access Program, the company's members already include the London Biofoundry and the BASE facility at the University of Queensland (UQ), Australia. In November 2021,

OriCiro Genomics Inc. launched the OriCiro Cell-Free Switching system. In June 2021, DNA Script commercially launched its SYNTAX platform with the first product—the SYNTAX System. This system is the first benchtop nucleic acid printer powered by enzymatic DNA synthesis (EDS) technology. The SYNTAX System is a fully integrated, automated printer that synthesizes 96 DNA oligos in parallel, each of length of up to 60 nucleotides, and delivers them ready for use in molecular biology and genomics workflows, eliminating the need for additional handling. In January 2021, Codex DNA, Inc. signed a strategic collaboration and licensing agreement with Pfizer to access and further develop the novel EDS technology of Codex DNA for its potential application in Pfizer's mRNA-based vaccines and other biopharma products. Such developments help end users meet the rising demand for technically advanced systems that can efficiently manage data and provide accurate results, thereby boosting the market growth.

Asia Pacific Enzymatic DNA Synthesis Market Overview

Synthetic biology is considered an emerging field of research that will open up new possibilities for biotechnology. Scientific research and development are increasing rapidly in China. Synthetic biology research in China is driven by the country's need to address public health, nutrition, and resource needs and a national strategy to promote advancements in science and technology. Several enzyme systems such as organophosphorus hydrolase and acetylcholinesterase have been studied. In addition, China has been active in most emerging research areas such as genomics and bioinformatics. It is one of the leading countries in terms of gross spending on R&D, patents granted, and scientific publications. China dominates the gene synthesis market in Asia Pacific regarding market share and revenue and will continue to do so during the forecast period due to the increasing need for the region's verification and validation of gene synthesis processes.

Asia Pacific Enzymatic DNA Synthesis Market Revenue and Forecast to 2028 (US\$ Million)

Asia Pacific Enzymatic DNA Synthesis Market Segmentation

The Asia Pacific enzymatic DNA synthesis market is segmented on the basis of product type, application, end user, and country.

Based on product type, the Asia Pacific enzymatic DNA synthesis market is bifurcated into custom DNA synthesis and DNA library synthesis. In 2022, the DNA library

synthesis segment registered a larger market share.

Based on application, the Asia Pacific enzymatic DNA synthesis market is segmented into synthetic biology, genetic engineering, therapeutic antibodies, vaccine design, and others. In 2022, the synthetic biology segment registered the largest market share.

Based on end user, the Asia Pacific enzymatic DNA synthesis market is segmented into academic & research institutes, biotech & pharmaceutical companies, diagnostic laboratories, and others. In 2022, the biotech & pharmaceutical companies segment held the largest market share.

Based on country, the Asia Pacific enzymatic DNA synthesis market is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. In 2022, China registered a largest share in the Asia Pacific enzymatic DNA synthesis market.

DNA Script; Evonetix.; GenScript Biotech Corporation; Synbio Technologies; Telesis Bio Inc; Touchlight; and Twist Bioscience are the leading companies operating in the Asia Pacific enzymatic DNA synthesis market.

Contents

1. INTRODUCTION

- 1.1 Scope of the Study
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 Asia Pacific Enzymatic DNA Synthesis Market – by Product Type
 - 1.3.2 Asia Pacific Enzymatic DNA Synthesis Market – by Application
 - 1.3.3 Asia Pacific Enzymatic DNA Synthesis Market – by End User
 - 1.3.4 Asia Pacific Enzymatic DNA Synthesis Market – by Country

2. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Asia Pacific PEST Analysis
- 4.3 Expert's Opinion

5. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Rising Prevalence of Genetic Disorders
 - 5.1.2 Surging Number of Product Launches
- 5.2 Market Restraints
 - 5.2.1 High Costs and Complex Procedures
- 5.3 Market Opportunities
 - 5.3.1 Growing Demand for Enzymatic DNA Synthesis Procedure
- 5.4 Future Trends
 - 5.4.1 Growing Demand for Personalized Medicine and DNA Data Storage

5.5 Impact Analysis

6. ENZYMATIC DNA SYNTHESIS MARKET – ASIA PACIFIC ANALYSIS

6.1 Asia Pacific Enzymatic DNA Synthesis Market Revenue Forecast and Analysis

7. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – REVENUE AND FORECAST TO 2028 – BY PRODUCT TYPE

7.1 Overview

7.2 Asia Pacific Enzymatic DNA Synthesis Market Revenue Share, by Product Type 2021 & 2028 (%)

7.3 Custom DNA Synthesis

7.3.1 Overview

7.3.2 Custom DNA Synthesis: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

7.4 DNA Library Synthesis

7.4.1 Overview

7.4.2 DNA Library Synthesis: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

8. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET ANALYSIS AND FORECASTS TO 2028 – BY APPLICATION

8.1 Overview

8.2 Asia Pacific Enzymatic DNA Synthesis Market, by Application 2021 & 2028 (%)

8.3 Synthetic Biology

8.3.1 Overview

8.3.2 Synthetic Biology: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Genetic Engineering

8.4.1 Overview

8.4.2 Genetic Engineering: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

8.5 Therapeutic Antibodies

8.5.1 Overview

8.5.2 Therapeutic Antibodies: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

8.6 Vaccine Design

8.6.1 Overview

8.6.2 Vaccine Design: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

8.7 Others

8.7.1 Overview

8.7.2 Others: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

9. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – REVENUE AND FORECAST TO 2028 – BY END USER

9.1 Overview

9.2 Asia Pacific Enzymatic DNA Synthesis Market Revenue Share, by End User 2021 & 2028 (%)

9.3 Academic and Research Institutes

9.3.1 Overview

9.3.2 Academic and Research Institutes: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Biotech and Pharmaceutical Companies

9.4.1 Overview

9.4.2 Biotech and Pharmaceutical Companies: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Diagnostic Laboratories

9.5.1 Overview

9.5.2 Diagnostic Laboratories: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

9.6 Others

9.6.1 Overview

9.6.2 Others: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – REVENUE AND FORECAST TO 2028 – COUNTRY ANALYSIS

10.1 Overview

10.1.1 Asia Pacific: Enzymatic DNA Synthesis Market, by Country, 2021 & 2028 (%)

10.1.1.1 China: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.1.1 Overview

10.1.1.1.2 China: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.1.3 China: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.1.4 China: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.1.5 China Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

10.1.1.2 Japan: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.2.1 Overview

10.1.1.2.2 Japan: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.2.3 Japan: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.2.4 Japan: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.2.5 Japan: Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

10.1.1.3 India: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.3.1 Overview

10.1.1.3.2 India: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.3.3 India: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.3.4 India: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.3.5 India: Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

10.1.1.4 South Korea: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.4.1 Overview

10.1.1.4.2 South Korea: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.4.3 South Korea: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.4.4 South Korea: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.4.5 South Korea: Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

10.1.1.5 Australia: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.5.1 Overview

10.1.1.5.2 Australia: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.5.3 Australia: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.5.4 Australia: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.5.5 Australia: Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

10.1.1.6 Rest of Asia Pacific: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.6.1 Overview

10.1.1.6.2 Rest of Asia Pacific: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.1.6.3 Rest of Asia Pacific: Enzymatic DNA Synthesis Market, by Product Type, 2019–2028 (US\$ Million)

10.1.1.6.4 Rest of Asia Pacific: Enzymatic DNA Synthesis Market, by Application, 2019–2028 (US\$ Million)

10.1.1.6.5 Rest of Asia Pacific: Enzymatic DNA Synthesis Market, by End User, 2019–2028 (US\$ Million)

11. ASIA PACIFIC ENZYMATIC DNA SYNTHESIS MARKET – INDUSTRY LANDSCAPE

11.1 Overview

11.2 Organic Growth Strategies

11.2.1 Overview

11.3 Inorganic Growth Strategies

11.3.1 Overview

12. COMPANY PROFILES

12.1 Telesis Bio Inc

12.1.1 Key Facts

12.1.2 Business Description

- 12.1.3 Products and Services
- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments
- 12.2 GenScript Biotech Corporation
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 DNA Script
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 Touchlight
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Synbio Technologies
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Twist Bioscience
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Enzymatic DNA Synthesis Market –Revenue and Forecast to 2028 (US\$ Million)

Table 2. China Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 3. China Enzymatic DNA Synthesis Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 4. China Enzymatic DNA Synthesis Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 5. Japan Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 6. Japan Enzymatic DNA Synthesis Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 7. Japan Enzymatic DNA Synthesis Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 8. India Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. India Enzymatic DNA Synthesis Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 10. India Enzymatic DNA Synthesis Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 11. South Korea Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 12. South Korea Enzymatic DNA Synthesis Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 13. South Korea Enzymatic DNA Synthesis Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Australia Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Australia Enzymatic DNA Synthesis Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Australia Enzymatic DNA Synthesis Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Rest of Asia Pacific Enzymatic DNA Synthesis Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Rest of Asia Pacific Enzymatic DNA Synthesis Market, by Application –

Revenue and Forecast to 2028 (US\$ Million)

Table 19. Rest of Asia Pacific Enzymatic DNA Synthesis Market, by End User –
Revenue and Forecast to 2028 (US\$ Million)

Table 20. Recent Organic Growth Strategies in Enzymatic DNA Synthesis Market

Table 21. Recent Inorganic Growth Strategies in The Asia Pacific enzymatic DNA
synthesis market

Table 22. Glossary of Terms

List Of Figures

LIST OF FIGURES

Figure 1. Asia Pacific Enzymatic DNA Synthesis Market Segmentation

Figure 2. Asia Pacific Enzymatic DNA Synthesis Market, by Country

Figure 3. Asia Pacific Enzymatic DNA Synthesis Market Overview

Figure 4. DNA Library Synthesis Segment Held the Largest Share of Product Type Segment in the Asia Pacific Enzymatic DNA Synthesis Market

Figure 5. China Expected to Show Remarkable Growth During Forecast Period

Figure 6. Asia Pacific: PEST Analysis

Figure 7. Experts' Opinion

Figure 8. Asia Pacific Enzymatic DNA Synthesis Market: Impact Analysis of Drivers and Restraints

Figure 9. Asia Pacific Enzymatic DNA Synthesis Market – Revenue Forecast and Analysis – 2020–2028

Figure 10. Asia Pacific Enzymatic DNA Synthesis Market Revenue Share, by Product Type 2021 & 2028 (%)

Figure 11. Custom DNA Synthesis: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 12. DNA Library Synthesis: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 13. Asia Pacific Enzymatic DNA Synthesis Market, by Application 2021 & 2028 (%)

Figure 14. Synthetic Biology: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 15. Genetic Engineering: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 16. Therapeutic Antibodies: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 17. Vaccine Design: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 18. Others: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 19. Asia Pacific Enzymatic DNA Synthesis Market Revenue Share, by End User 2021 & 2028 (%)

Figure 20. Academic and Research Institutes: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 21. Biotech and Pharmaceutical Companies: Asia Pacific Enzymatic DNA

Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 22. Diagnostic Laboratories: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 23. Others: Asia Pacific Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 24. Asia Pacific: Enzymatic DNA Synthesis Market, by Key Country – Revenue (2021) (US\$ Million)

Figure 25. China: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 26. Japan: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 27. India: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 28. South Korea: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 29. Australia: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 30. Rest of Asia Pacific: Enzymatic DNA Synthesis Market – Revenue and Forecast to 2028 (US\$ Million)

I would like to order

Product name: Asia Pacific Enzymatic DNA Synthesis Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Product Type (Custom DNA Synthesis and DNA Library Synthesis), Application (Synthetic Biology, Genetic Engineering, Therapeutic Antibodies, Vaccine Design, and Others), and End User (Academic & Research Institutes, Biotech & Pharmaceutical Companies, Diagnostic Laboratories, and Others)

Product link: <https://marketpublishers.com/r/AD87C6A610E4EN.html>

Price: US\$ 3,000.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AD87C6A610E4EN.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