

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)

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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.

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