

South & Central America 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 South & Central America enzymatic DNA synthesis market is expected to grow from US\$ 13.04 million in 2022 to US\$ 112.02 million by 2028. It is estimated to register a CAGR of 43.1% from 2022 to 2028.

Growing Demand for Personalized Medicine and DNA Data Storage Drives South & Central America Enzymatic DNA Synthesis Market

Personalized medicine means improving healthcare by incorporating early disease detection, preventive medicine, rational drug discovery and development, and therapy monitoring. The genetic profile of a patient assists doctors in precisely calculating a patient's susceptibility to specific diseases and allows them to prescribe the patient a proper medication with reduced side effects. The bottom-up synthetic biology approach is considered more relevant for developing personalized medicine as it offers more flexibility in building a semi-synthetic cell from molecular building blocks for a desired application. Enzymatic DNA synthesis is expected to make a significant contribution to personalized medicine. It can be used to explore any possible mutations or gene

variants affecting a patient's response to a particular drug/treatment by analyzing the patient's genome sequencing or microarray gene expression. Moreover, enzymatic DNA synthesis may furnish better conclusions in the prior identification of infection. Therefore, personalized medicine, especially for treating rare diseases and genetic disorders, is expected to bring new trends in The South America enzymatic DNA synthesis market. New storage technologies are required to keep up with the global needs of data generation. Genetic code is millions of times more efficient at storing data than existing solutions, which are expensive and consume immense amounts of power and space. DNA as a high-density data storage medium can drive breakthroughs in next-generation biosensing and bio-recording technology, and digital storage. DNA data storage is experiencing incredible growth with even non-bio giants, such as Microsoft, entering the space. Enzymatic synthesis of DNA is considered to be a promising option. Enzymatic systems synthesize DNA that records rapidly changing environmental signals directly into DNA sequences, a method that could change how scientists study and record neurons in the brain. Thus, growing efforts to harness multiplex enzymatic oligonucleotide synthesis in the context of important applications such as digital data storage will usher in a new era of scientific research and biotechnology.

South & Central America Enzymatic DNA Synthesis Market Overview

Brazil is one of the largest countries in the world, with an estimated population of 212 million as of July 2020. In Brazil, the rare disease is diagnosed and treated at specialized centers of medical genetics services at university hospitals (UH) and Newborn Screening Reference Services (NSRS) for specific disorders. These centers provide rare disease diagnosis using clinical and mainly research laboratories. In addition, the Brazilian health system, the Unified Health System (SUS) plays a vital role in delivering access to high-cost therapies within the largest public healthcare system worldwide. Rare Disease Specialized Care Services and Rare Disease Reference Services (RDRS) were also established, and a list of genetic tests was incorporated into the SUS. In December 2019, DNA do Brasil (DNA of Brazil) was launched by a group of scientists from the University of São Paulo in partnership with diagnostic medicine company Dasa and the cloud computing platform Google Cloud. The project aims to trace the country's genetic roots through mass genetic sequencing. One of the project's main objectives was to build a genomic database of the Brazilian population that can help produce medicines and research of complex diseases. Additionally, in December 2020, an event was launched in partnership between ASGCT and the Brazilian Association of Cellular and Gene Therapy. The program's goal was to share experiences and insights on various factors to successfully initiate clinical trials of in

vivo and ex vivo gene therapies in Brazil. Therefore, various government initiatives and clinical research programs are important in expanding the availability and access to these therapies for patients, which, in turn, favor the growth of the enzymatic DNA synthesis market in the country.

South & Central America Enzymatic DNA Synthesis Market Revenue and Forecast to 2028 (US\$ Million)

South & Central America Enzymatic DNA Synthesis Market Segmentation

The South & Central America enzymatic DNA synthesis market is segmented on the basis of product type, application, end user, and country.

Based on product type, the South & Central America 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 South & Central America 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 South & Central America 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 South & Central America enzymatic DNA synthesis market is segmented into Brazil, Argentina, and the Rest of South & Central America. In 2022, Brazil registered a largest share in the South & Central America enzymatic DNA synthesis market.

DNA Script; GenScript Biotech Corporation; Synbio Technologies; Telesis Bio Inc; and Twist Bioscience are the leading companies operating in the South & Central America enzymatic DNA synthesis market.

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