

Middle East & Africa 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 Middle East & Africa enzymatic DNA synthesis market is expected to grow from US\$ 9.76 million in 2022 to US\$ 92.26 million by 2028. It is estimated to register a CAGR of 45.4% from 2022 to 2028.

Growing Demand for Enzymatic DNA Synthesis Procedure to Offer New Opportunities for Players in Middle East & Africa Enzymatic DNA Synthesis Market During Forecast Period

Enzymatic approaches are the most attractive and are scalable, stereospecific, and environmentally benign. Enzymes can mediate mismatch recognition, enabling selective annealing of complementary strands, reducing the number of steps in each elongation cycle by eliminating the need for coupling reagents, and lowering the dependence on organic solvents. The enzymatic synthesis is inherently simpler than the chemical alternative and has the crucial potential to be much more precise than the chemical approach, introducing fewer errors into the code. This makes it possible to produce much longer sequences without causing cumbersome, inefficient, costly cleanups or workarounds. Several start-up companies and academic institutes are developing novel



enzyme-based DNA synthesis technologies, which are believed to be the first breakthrough in DNA synthesis technology in ~40 years. These methods would significantly reduce costs and production time. As several enzyme companies are now active in the enzymatic DNA synthesis space, different business models have emerged with an increasing focus on DNA assembly and benchtop printers, creating opportunities for The Middle East & Africa enzymatic DNA synthesis market. DNA Script offers the Syntax instrument as a benchtop DNA synthesizer in a similar size as a HiSeq sequencer developed by Illumina. This synthesizer can generate 60 bp oligonucleotides in pure form for immediate use within 6 hours. In addition, the next generation of on-demand DNA synthesizers is likely to provide unprecedented accuracy, scalability, and speed, democratizing access to this technology and realizing the full promise of synthetic DNA to accelerate the development of tomorrow's medicine. These projected developments in the DNA synthesis landscape are expected open new opportunities for companies operating in the Middle East & Africa enzymatic DNA synthesis market.

Middle East & Africa Enzymatic DNA Synthesis Market Overview

According to Department of Molecular Genetics, Public Health Laboratory, Public Health Authority, Saudi Arabia, in 2021, more than half of the population in the country is in a congenital marriage, which is reflected in the increased number of autosomal recessive conditions. Saudi Arabia has the highest autosomal recessive birth rate across the world. Founder mutations or genetic pool account for 40% of the mutation pool, and it is restricted to the family. Thus, due to high incidence of consanguineous marriages, genetic diseases are highly prevalent in Saudi Arabia. The development and manufacturing of gene therapies could offer a solution for this chronic illness. SaudiVax aims to make gene therapies and other essential biologics accessible to patients in the Middle East and North Africa through a state-of-the-art manufacturing facility designed in collaboration with Merck. Thus, the prevalence of genetic disorders and initiatives by key players to overcome the genetic illness are driving the growth of the Middle East & Africa enzymatic DNA synthesis market in Saudi Arabia.

Middle East & Africa Enzymatic DNA Synthesis Market Revenue and Forecast to 2028 (US\$ Million)

The Middle East & Africa enzymatic DNA synthesis market is segmented on the basis of product type, application, end user, and country.

Based on product type, the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa enzymatic DNA synthesis market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of Middle East & Africa. In 2022, Saudi Arabia registered a largest share in the Middle East & Africa enzymatic DNA synthesis market.

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



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