

Europe 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 Europe enzymatic DNA synthesis market is expected to grow from US\$ 78.55 million in 2022 to US\$ 727.79 million by 2028. It is estimated to register a CAGR of 44.9% from 2022 to 2028.

Growing Demand for Enzymatic DNA Synthesis Procedure to Offer New Opportunities for Market Players in Europe 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 Europe 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 Europe enzymatic DNA synthesis market.

Europe Enzymatic DNA Synthesis Market Overview

The European enzymatic DNA synthesis market is segmented into Germany, the UK, France, Italy, Spain, and the Rest of Europe. In Germany, intentional alteration of the genome of germline cells and embryos is prohibited by criminal law. This ban is the result of legislation that was adopted more than 25 years ago. However, the rapid emergence of genome manipulation techniques, coupled with recent technological developments, is increasingly exposing the senescence of the regulatory framework. With the advent of genome editing, there has been a shift in the national debate on the use of genetic engineering.

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

Europe Enzymatic DNA Synthesis Market Segmentation

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

Based on product type, the Europe 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 Europe 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 Europe 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 Europe enzymatic DNA synthesis market is segmented into the UK, Germany, France, Italy, Spain, and the Rest of Europe. In 2022, Germany registered a largest share in the Europe enzymatic DNA synthesis market.

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

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