

DNA Synthesis Market By Product and Service (Product, Services), By Type (Oligonucleotide Synthesis, Gene Synthesis), By Application (Diagnostics, Therapeutics, Research and Development), By End User (Pharmaceutical and Biotechnology Companies, Diagnostic Companies, Academic and Research Institutes, Others): Global Opportunity Analysis and Industry Forecast, 2026-2035

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Abstracts

The DNA synthesis market was valued at \$5.7 billion in 2025 and is estimated to reach \$30.4 billion by 2035, exhibiting a CAGR of 18.2% from 2026 to 2035. DNA synthesis refers to the artificial creation of DNA molecules through chemical or enzymatic methods, enabling researchers to design, assemble, and produce customized DNA sequences for a wide range of applications. It plays a critical role in modern biotechnology, molecular biology, synthetic biology, drug discovery, and genetic engineering. DNA synthesis technologies include oligonucleotide synthesis and gene synthesis, which allow the production of short DNA fragments as well as full-length genes with high precision and scalability. These synthesized DNA sequences are widely used in research, diagnostics, therapeutics development, vaccine design, and agricultural biotechnology, making them a foundational tool in life sciences innovation.

The DNA synthesis market has witnessed strong growth, primarily driven by the rise in demand for advanced genomic research and surge in applications in personalized medicine and precision therapeutics. Increase in investments in biotechnology and pharmaceutical R&D have significantly boosted the adoption of synthetic DNA for drug

discovery, target validation, and biomarker identification. In addition, the rapid growth of synthetic biology and genetic engineering applications, such as CRISPR-based gene editing, has further accelerated market expansion. The surge in prevalence of chronic and infectious diseases has also intensified the need for rapid diagnostic development and vaccine research, thereby increasing reliance on DNA synthesis technologies across healthcare and research institutions.

However, the market faces certain restraints, including the high cost associated with high-fidelity DNA synthesis and sequencing error correction, which limits accessibility for smaller research laboratories and startups. In addition, technical limitations in synthesizing longer and highly complex DNA sequences with absolute accuracy continue to pose challenges. Regulatory concerns related to biosecurity and the ethical implications of synthetic gene creation also restrict unrestricted market expansion in several regions.

Despite these challenges, the advancements in enzymatic DNA synthesis technologies, which offer higher speed, scalability, and reduced error rates compared to traditional chemical methods, offer significant opportunities for market expansion. The surge in demand for synthetic biology-based solutions in industrial biotechnology, agriculture, and healthcare is expected to further expand application areas. Emerging economies in Asia-Pacific, particularly India and China, are becoming key growth hubs due to increase in investments in genomics infrastructure, surge in number of biotech startups, and supportive government initiatives promoting life sciences research.

The DNA synthesis market is segmented into product & services, type, application, end user, and region. On the basis of product & services, it is bifurcated into product and services. The product segment is further divided into instruments and reagent & consumables. On the basis of type, the market is segregated into oligonucleotide synthesis and gene synthesis. On the basis of application, the market is categorized into diagnostics, therapeutics, and research & development. On the basis of end user, the market is fragmented into pharmaceutical & biotechnology companies, diagnostic companies, academic & research institutes, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major companies profiled in the report are Danaher Corporation, Eurofins Scientific SE, Thermo Fisher Scientific Inc., Twist Bioscience, GenScript Biotech Corporation, Merck KGaA, Bioneer Corporation, Telesis Bio, Azenta Inc., and Ajinomoto Bio-Pharma.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the dna synthesis market analysis from 2025 to 2035 to identify the prevailing dna synthesis market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the dna synthesis market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global dna synthesis market trends, key players, market segments, application areas, and market growth strategies.

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Expanded list for Company Profiles

Historic market data

Key Market Segments By Type Oligonucleotide Synthesis

Gene Synthesis

By Application Diagnostics

Therapeutics

Research and Development

By Product and Service Product Type

Instruments

Reagents and Consumables

Services

By End User Pharmaceutical and Biotechnology Companies

Diagnostic Companies

Academic and Research Institutes

Others

By Region

North America

U.S.

Canada

Mexico

Europe Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Eurofins Scientific SE

Twist Bioscience

GenScript Biotech Corporation

Bioneer Corporation

Telesis Bio

Ajinomoto Bio-Pharma

Thermo Fisher Scientific Inc.

Merck KGaA

Azenta Inc.

Danaher Corporation

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