

DNA Synthesis Market Size, Trends, Analysis, and Outlook By Service (Oligonucleotide Synthesis, Gene Synthesis), By Application (Research and Development, Diagnostics, Therapeutics), By End-User (Biopharmaceutical Companies, Academic and Research Institutes, Contract Research Organizations), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global DNA Synthesis market size is poised to register 17.3% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global DNA Synthesis market across By Service (Oligonucleotide Synthesis, Gene Synthesis), By Application (Research and Development, Diagnostics, Therapeutics), By End-User (Biopharmaceutical Companies, Academic and Research Institutes, Contract Research Organizations).

The DNA synthesis market is influenced by the increasing demand for custom DNA oligonucleotides and synthetic genes in molecular biology research, synthetic biology, gene editing, and gene therapy applications. DNA synthesis involves the chemical assembly of nucleotide building blocks into single-stranded or double-stranded DNA molecules with user-defined sequences. Market growth is driven by the expanding applications of synthetic DNA in gene cloning, mutagenesis, site-directed mutagenesis, CRISPR/Cas gene editing, and DNA-based therapeutics. Additionally, the rising demand for synthetic genes encoding therapeutic proteins, enzymes, antibodies, and RNA molecules further stimulates market demand for DNA synthesis services and products. Technological advancements in DNA synthesis platforms, such as solid-

phase synthesis, microarray-based synthesis, and enzymatic synthesis methods, contribute to market expansion by improving synthesis efficiency, accuracy, and scalability for high-throughput applications. Moreover, collaborative efforts between DNA synthesis providers, academic researchers, and biotechnology companies promote the development of next-generation synthesis technologies, DNA assembly methods, and gene synthesis algorithms, driving market innovation and adoption in the field of synthetic biology and genetic engineering.

DNA Synthesis Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The DNA Synthesis market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of DNA Synthesis survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the DNA Synthesis industry.

Key market trends defining the global DNA Synthesis demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

DNA Synthesis Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The DNA Synthesis industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support DNA Synthesis companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the DNA Synthesis industry

Leading DNA Synthesis companies are boosting investments to capitalize on untapped

potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 DNA Synthesis companies.

DNA Synthesis Market Study- Strategic Analysis Review

The DNA Synthesis market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

DNA Synthesis Market Size Outlook- Historic and Forecast Revenue in Three Cases

The DNA Synthesis industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

DNA Synthesis Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America DNA Synthesis Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various DNA Synthesis market segments. Similarly, Strong end-user demand is encouraging Canadian DNA Synthesis companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico DNA Synthesis market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe DNA Synthesis Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European DNA Synthesis industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European DNA Synthesis market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific DNA Synthesis Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for DNA Synthesis in Asia Pacific. In particular, China, India, and South East Asian DNA Synthesis markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a

comprehensive outlook of 6 major markets in the region.

Latin America DNA Synthesis Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa DNA Synthesis Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East DNA Synthesis market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for DNA Synthesis.

DNA Synthesis Market Company Profiles

The global DNA Synthesis market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Bioneer Corp, Eton Bioscience, Eurofins Scientific, GenScript Biotech Corp, IBA GmbH, Integrated DNA Technologies Inc, LGC Biosearch Technologies, Quintara Biosciences, Thermo Fisher Scientific Inc, Twist Bioscience

Recent DNA Synthesis Market Developments

The global DNA Synthesis market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

DNA Synthesis Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Service

Oligonucleotide Synthesis

-Standard Oligonucleotide Synthesis

-Custom Oligonucleotide Synthesis

Gene Synthesis

-Custom Gene Synthesis

-Gene Library Synthesis

By Application

Research and Development

Diagnostics

Therapeutics

By End-User

Biopharmaceutical Companies

Academic and Research Institutes

Contract Research Organizations

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Bioneer Corp

Eton Bioscience

Eurofins Scientific

GenScript Biotech Corp

IBA GmbH

Integrated DNA Technologies Inc

LGC Biosearch Technologies

Quintara Biosciences

Thermo Fisher Scientific Inc

Twist Bioscience

Formats Available: Excel, PDF, and PPT

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Diagnostics

Therapeutics

By End-User

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IBA GmbH
Integrated DNA Technologies Inc
LGC Biosearch Technologies
Quintara Biosciences
Thermo Fisher Scientific Inc
Twist Bioscience

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