

DNA Synthesis Market Size, Share & Trends Analysis Report By Service Type (Gene Synthesis, Oligonucleotide Synthesis), By Application (Research And Development, Therapeutics), By End-use, By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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DNA Synthesis Market Growth & Trends

The global DNA synthesis market size is expected to reach USD 12.76 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to register a CAGR of 19.63% from 2023 to 2030 owing to the rising focus on personalized genome sequencing that aids determine patient care. In addition, DNA synthesis has the capability to revolutionize biological research activities for widespread applications in disease monitoring, drug discovery, and pharmacogenomics.

The COVID-19 pandemic positively impacted the adoption of mRNA-based vaccines for the treatment of COVID-19 infection and different types of cancers. The utility of mRNA boosts the demand for synthetic DNA. Furthermore, a major focus of Covid-19 research is DNA synthesis. Synthetic DNA is used in all PCR analyses. Patients need to use a DNA primer to identify any genomic DNA that may be present in the sample.

Progress in enzyme engineering is boosting the development of different approaches for enzymatic DNA synthesis. It involves the use of enzymes to chain the nucleic acids together in the required sequence and requires further optimization for its widespread applications. Many market players are striving to devise novel technologies for efficient enzymatic production of nucleotides in the lowest turnaround time. For instance, in May

2021, Ribbon Biolabs set a mission of synthesizing DNA sequences of 10,000 base pairs and accomplished a milestone of a 20,000 base pair DNA molecule by December 2021.

Gene synthesis has a broad spectrum of applications in targeted mutagenesis with a specific sequence of nucleotides along with the regulation of a desired phenotypic expression. It forms the primary basis of genetic engineering, which has significantly leveraged the scope and quality of antibodies by the development of antibody fragments with high specificity.

Oligonucleotide synthesis is the laboratory-based production of relatively short fragments of nucleic acids in a required definitive sequence. The technique is an extremely robust practice that facilitates rapid and inexpensive access to the custom-made oligonucleotides of the desired sequence. Companies have devised their oligonucleotide libraries to aid their nucleotide synthesis processes. For instance, in July 2022, Ribbon Biolabs declared that it secured a U.S. Patent that comprises Ribbon Biolabs' method for the synthesis of a nucleotide molecule using a diverse library of oligonucleotides. The approach comprises a pre-built library of oligonucleotides for efficient access.

DNA Synthesis Market Report Highlights

By service type, oligonucleotide synthesis held the largest share in 2022 due to the rising demand for synthetic nucleotide strands for their utility in research studies

By application, the research and development segment dominated the market in 2022 due to the demand for synthetic nucleotides for a wide spectrum of applications in bioengineering and mRNA-based vaccines

By end-use, the biopharmaceutical companies segment is expected to grow rapidly over the forecast period owing to a rise in the applications of synthetic nucleotides to leverage bio-molecular therapies. The rise in the demand for novel drug discovery also positively impacts the growth of this segment

North America dominated the global market in 2022 owing to emerging advancements in life sciences research and rapidly growing demand for novel bio-therapeutics in the region

Asia Pacific is expected to grow considerably due to a rise in the demand for biological research and novel drug discovery. Moreover, key market players are working towards entering the Asia Pacific market with their modern nucleotide production expertise

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Scope
 - 1.1.1 Estimates and Forecast Timeline
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 GVR's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Primary Research
- 1.4 Information or Data Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation & Validation
- 1.6 Objectives
 - 1.6.1 Objective
 - 1.6.2 Objective

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 DNA synthesis Market: Market Outlook

CHAPTER 3 MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Trends & Outlook
- 3.2 Trend Analysis
 - 3.2.1 Service Type Trends
 - 3.2.2 Application Trends
 - 3.2.3 End-Use Trends
- 3.3 Market Segmentation & Scope
- 3.4 Market Dynamics
 - 3.4.1 Market driver analysis
 - 3.4.1.1 Rapid Technological Advancements in the Field of Synthetic Biology
 - 3.4.1.2 Rising Investments Toward Research & Development (R&D) Activities
 - 3.4.2 Market restraint analysis
 - 3.4.2.1 Potential Biosafety, Biosecurity, and Ethical Issues
 - 3.4.2.2 Stringent Government Regulations & Guidelines
 - 3.4.3 Opportunity analysis

3.5 Penetration & Growth Prospect Mapping for Products, 2022

3.6 Business Environment Analysis

3.6.1 DNA synthesis Market -SWOT Analysis, By Factor (Political & Legal, Economic And Technological)

3.6.2 Porter's Five Forces Analysis

3.7 Market Share Analysis

3.7.1 Company Size

3.7.2 Product portfolio

3.7.3 Strategic Initiatives

3.8 Competitive Landscape

3.8.1 Strategy Framework

3.8.2 Market Participation Categorization

3.8.2.1 New/ emerging entrants

3.8.2.2 Mature players & leaders

CHAPTER 4 SERVICES TYPE BUSINESS ANALYSIS

4.1 Oligonucleotide Synthesis

4.1.1 Global DNA synthesis market for oligonucleotide synthesis, 2018 - 2030 (USD Million)

4.1.2 Standard Oligonucleotide Synthesis

4.1.2.1 Global DNA synthesis market for standard oligonucleotide synthesis, 2018 - 2030 (USD Million)

4.1.3 Custom Oligonucleotide Synthesis

4.1.3.1 Global DNA synthesis market for custom oligonucleotide synthesis, 2018 - 2030 (USD Million)

4.2 Gene Synthesis

4.2.1 Global DNA synthesis market for gene synthesis, 2018 - 2030 (USD Million)

4.2.2 Custom Gene Synthesis

4.2.2.1 Global DNA synthesis market for custom gene synthesis, 2018 - 2030 (USD Million)

4.2.3 Gene Library Synthesis

4.2.3.1 Global DNA synthesis market for gene library synthesis, 2018 - 2030 (USD Million)

CHAPTER 5 APPLICATION ANALYSIS

5.1 Research & Development

5.1.1 Global DNA Synthesis Market For Research & Development, 2018 - 2030 (USD Million)

Million)

5.2 Diagnostics

5.2.1 Global DNA Synthesis Market For Diagnostics, 2018 - 2030 (USD Million)

5.3 Therapeutics

5.3.1 Global DNA Synthesis Market For Therapeutics, 2018 - 2030 (USD Million)

CHAPTER 6 EDN-USE ANALYSIS

6.1 Biopharmaceutical Companies

6.1.1 Global DNA Synthesis Market For Biopharmaceutical Companies, 2018 - 2030 (Usd Million)

6.2 Academic & Research Institutes

6.2.1 Global DNA Synthesis Market For Academic& Research Institutes, 2018 - 2030 (Usd Million)

6.3 Contract Research Organizations

6.3.1 Global DNA Synthesis Market For Contract Research Organizations, 2018 - 2030 (Usd Million)

CHAPTER 7 REGIONAL BUSINESS ANALYSIS

7.1 DNA synthesis Market: Regional Movement Analysis, 2022 & 2030

7.2 North America

7.2.1 North America Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.2.2 U.S.

7.2.2.1 U.S. Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.2.2.2 Key country Dynamics

7.2.2.3 Regulatory Framework

7.2.2.4 Competitive Scenario

7.2.2.5 Recent Developments

7.2.2.6 Investments Scenario

7.2.3 Canada

7.2.3.1 Canada Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.2.3.2 Key country Dynamics

7.2.3.3 Regulatory Framework

7.2.3.4 Competitive Scenario

7.2.3.5 Recent Developments

7.2.3.6 Investments Scenario

7.3 Europe

7.3.1 Europe Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.2 Germany

7.3.2.1 Germany Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.2.2 Key country Dynamics

7.3.2.3 Regulatory Framework

7.3.2.4 Competitive Scenario

7.3.2.5 Recent Developments

7.3.2.6 Investments Scenario

7.3.3 U.K.

7.3.3.1 U.K. Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.3.2 Key country Dynamics

7.3.3.3 Regulatory Framework

7.3.3.4 Competitive Scenario

7.3.3.5 Recent Developments

7.3.3.6 Investments Scenario

7.3.4 France

7.3.4.1 France Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.4.2 Key country Dynamics

7.3.4.3 Regulatory Framework

7.3.4.4 Competitive Scenario

7.3.4.5 Recent Developments

7.3.4.6 Investments Scenario

7.3.5 Italy

7.3.5.1 Italy Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.5.2 Key country Dynamics

7.3.5.3 Regulatory Framework

7.3.5.4 Competitive Scenario

7.3.5.5 Recent Developments

7.3.5.6 Investments Scenario

7.3.6 Spain

7.3.6.1 Spain Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.6.2 Key country Dynamics

7.3.6.3 Regulatory Framework

7.3.6.4 Competitive Scenario

7.3.6.5 Recent Developments

7.3.6.6 Investments Scenario

7.3.7 Denmark

7.3.7.1 Italy Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.7.2 Key country Dynamics

7.3.7.3 Regulatory Framework

7.3.7.4 Competitive Scenario

7.3.7.5 Recent Developments

7.3.7.6 Investments Scenario

7.3.8 Sweden

7.3.8.1 Italy Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.8.2 Key country Dynamics

7.3.8.3 Regulatory Framework

7.3.8.4 Competitive Scenario

7.3.8.5 Recent Developments

7.3.8.6 Investments Scenario

7.3.9 Norway

7.3.9.1 Norway Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.3.9.2 Key country Dynamics

7.3.9.3 Regulatory Framework

7.3.9.4 Competitive Scenario

7.3.9.5 Recent Developments

7.3.9.6 Investments Scenario

7.4 Asia Pacific

7.4.1 Asia Pacific Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.2 Japan

7.4.2.1 Japan Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.2.2 Key country Dynamics

7.4.2.3 Regulatory Framework

7.4.2.4 Competitive Scenario

7.4.2.5 Recent Developments

7.4.2.6 Investments Scenario

7.4.3 China

7.4.3.1 China Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.3.2 Key country Dynamics

7.4.3.3 Regulatory Framework

7.4.3.4 Competitive Scenario

7.4.3.5 Recent Developments

7.4.3.6 Investments Scenario

7.4.4 India

7.4.4.1 India Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.4.2 Key country Dynamics

7.4.4.3 Regulatory Framework

7.4.4.4 Competitive Scenario

7.4.4.5 Recent Developments

7.4.4.6 Investments Scenario

7.4.5 Australia

7.4.5.1 Australia Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.5.2 Key country Dynamics

7.4.5.3 Regulatory Framework

7.4.5.4 Competitive Scenario

7.4.5.5 Recent Developments

7.4.5.6 Investments Scenario

7.4.6 Thailand

7.4.6.1 Thailand Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.6.2 Key country Dynamics

7.4.6.3 Regulatory Framework

7.4.6.4 Competitive Scenario

7.4.6.5 Recent Developments

7.4.6.6 Investments Scenario

7.4.7 South Korea

7.4.7.1 South Korea Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.4.7.2 Key country Dynamics

7.4.7.3 Regulatory Framework

7.4.7.4 Competitive Scenario

7.4.7.5 Recent Developments

7.4.7.6 Investments Scenario

7.5 Latin America (LATAM)

7.5.1 Latin America Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.5.1.2 Key country Dynamics

7.5.1.3 Regulatory Framework

7.5.1.4 Competitive Scenario

7.5.1.5 Recent Developments

7.5.1.6 Investments Scenario

7.5.2 Brazil

7.5.2.1 Brazil Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.5.2.2 Key country Dynamics

7.5.2.3 Regulatory Framework

7.5.2.4 Competitive Scenario

7.5.2.5 Recent Developments

7.5.2.6 Investments Scenario

7.5.3 Mexico

7.5.3.1 Mexico Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.5.3.2 Key country Dynamics

7.5.3.3 Regulatory Framework

7.5.3.4 Competitive Scenario

7.5.3.5 Recent Developments

7.5.3.6 Investments Scenario

7.5.4 Argentina

7.5.4.1 Argentina Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.5.4.2 Key country Dynamics

7.5.4.3 Regulatory Framework

7.5.4.4 Competitive Scenario

7.5.4.5 Recent Developments

7.5.4.6 Investments Scenario

7.6 Middle East and Africa (MEA)

7.6.1 Middle East and Africa Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.6.2 South Africa

7.6.2.1 South Africa Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.6.2.2 Key country Dynamics

7.6.2.3 Regulatory Framework

7.6.2.4 Competitive Scenario

7.6.2.5 Recent Developments

7.6.2.6 Investments Scenario

7.6.3 Saudi Arabia

7.6.3.1 Saudi Arabia Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.6.3.2 Key country Dynamics

7.6.3.3 Regulatory Framework

7.6.3.4 Competitive Scenario

7.6.3.5 Recent Developments

7.6.3.6 Investments Scenario

7.6.4 UAE

7.6.4.1 Saudi Arabia Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.6.4.2 Key country Dynamics

7.6.4.3 Regulatory Framework

7.6.4.4 Competitive Scenario

7.6.4.5 Recent Developments

7.6.4.6 Investments Scenario

7.6.5 Kuwait

7.6.5.1 Kuwait Market Estimates and Forecast, 2018 - 2030 (USD Million)

7.6.5.2 Key country Dynamics

7.6.5.3 Regulatory Framework

- 7.6.5.4 Competitive Scenario
- 7.6.5.5 Recent Developments
- 7.6.5.6 Investments Scenario

CHAPTER 8 COMPANY PROFILES

8.1 Company Profiles

8.1.1 Thermo Fisher Scientific, Inc.

- 8.1.1.1 Company Overview
- 8.1.1.2 Financial Performance
- 8.1.1.3 Product Benchmarking
- 8.1.1.4 Strategic Initiatives

8.1.2 Twist Bioscience

- 8.1.2.1 Company Overview
- 8.1.2.2 Financial Performance
- 8.1.2.3 Product Benchmarking
- 8.1.2.4 Strategic Initiatives

8.1.3 Bioneer Corporation

- 8.1.3.1 Company Overview
- 8.1.3.2 Financial Performance
- 8.1.3.3 Product Benchmarking
- 8.1.3.4 Strategic Initiatives

8.1.4 Eton Bioscience

- 8.1.4.1 Company Overview
- 8.1.4.2 Financial Performance
- 8.1.4.3 Product Benchmarking
- 8.1.4.4 Strategic Initiatives

8.1.5 LGC Biosearch Technologie

- 8.1.5.1 Company Overview
- 8.1.5.2 Financial Performance
- 8.1.5.3 Product Benchmarking
- 8.1.5.4 Strategic Initiatives

8.1.6 IBA GmbH

- 8.1.6.1 Company Overview
- 8.1.6.1 Financial Performance
- 8.1.6.2 Product Benchmarking
- 8.1.6.3 Strategic Initiatives

8.1.7 Eurofins Scientific

- 8.1.7.1 Company Overview

- 8.1.7.2 Financial Performance
- 8.1.7.3 Product Benchmarking
- 8.1.7.4 Strategic Initiatives
- 8.1.8 Integrated DNA Technologies, Inc.
 - 8.1.8.1 Company Overview
 - 8.1.8.2 Financial Performance
 - 8.1.8.3 Product Benchmarking
 - 8.1.8.4 Strategic Initiatives
- 8.1.9 Quintara Biosciences
 - 8.1.9.1 Company Overview
 - 8.1.9.2 Financial Performance
 - 8.1.9.3 Product Benchmarking
 - 8.1.9.4 Strategic Initiatives
- 8.1.10 GenScript Biotech Corporation
 - 8.1.10.1 Company Overview
 - 8.1.10.2 Financial Performance
 - 8.1.10.3 Product Benchmarking
 - 8.1.10.4 Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 List of Secondary Sources

Table 2 List of Abbreviations

Table 3 Incidence of Diseases

Table 4 Global DNA synthesis Market, By Region, 2018 - 2030 (USD Million)

Table 5 Global DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 6 Global DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 7 Global DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 8 North America DNA synthesis Market, By Country, 2018 - 2030 (USD Million)

Table 9 North America DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 10 North America DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 11 North America DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 12 U.S. DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 13 U.S. DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 14 U.S. DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 15 Canada DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 16 Canada DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 17 Canada DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 18 Europe DNA synthesis Market, By Country, 2018 - 2030 (USD Million)

Table 19 Europe DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 20 Europe DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 21 Europe DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 22 Germany DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 23 Germany DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 24 Germany DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 25 U.K. DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 26 U.K. DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 27 U.K. DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 28 France DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 29 France DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 30 France DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 31 Italy DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 32 Italy DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 33 Italy DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

- Table 34 Spain DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 35 Spain DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 36 Spain DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 37 Denmark DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 38 Denmark DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 39 Denmark DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 40 Sweden DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 41 Sweden DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 42 Sweden DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 43 Norway DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 44 Norway DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 45 Norway DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 46 Asia Pacific DNA synthesis Market, By Country, 2018 - 2030 (USD Million)
- Table 47 Asia Pacific DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 48 Asia Pacific DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 49 Asia Pacific DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 50 Japan DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 51 Japan DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 52 Japan DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 53 China DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 54 China DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 55 China DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 56 India DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 57 India DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 58 India DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 59 Australia DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 60 Australia DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 61 Australia DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 62 Thailand DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 63 Thailand DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 64 Thailand DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 65 South Korea DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)
- Table 66 South Korea DNA synthesis Market, By Application, 2018 - 2030 (USD Million)
- Table 67 South Korea DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)
- Table 68 Latin America DNA synthesis Market, By Country, 2018 - 2030 (USD Million)
- Table 69 Latin America DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 70 Latin America DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 71 Latin America DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 72 Brazil DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 73 Brazil DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 74 Brazil DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 75 Mexico DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 76 Mexico DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 77 Mexico DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 78 Argentina DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 79 Argentina DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 80 Argentina DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 81 Middle East & Africa DNA synthesis Market, By Country, 2018 - 2030 (USD Million)

Table 82 Middle East & Africa DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 83 Middle East & Africa DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 84 Middle East & Africa DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 85 Saudi Arabia DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 86 Saudi Arabia DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 87 Saudi Arabia DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 88 South Africa DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 89 South Africa DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 90 South Africa DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 91 UAE DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 92 UAE DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 93 UAE DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

Table 94 Kuwait DNA synthesis Market, By Service Type, 2018 - 2030 (USD Million)

Table 95 Kuwait DNA synthesis Market, By Application, 2018 - 2030 (USD Million)

Table 96 Kuwait DNA synthesis Market, By End-use, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Pattern
- Fig. 3 Market Research Approaches
- Fig. 4 Value Chain-Based Sizing & Forecasting
- Fig. 5 Market Formulation & Validation
- Fig. 6 DNA Synthesis Market Segmentation
- Fig. 7 Market Driver Relevance Analysis (Current & Future Impact)
- Fig. 8 Market Restraint Relevance Analysis (Current & Future Impact)
- Fig. 9 Market Challenge Relevance Analysis (Current & Future Impact)
- Fig. 10 Penetration & Growth Prospect Mapping
- Fig. 11 SWOT Analysis, By Factor (Political & Legal, Economic and Technological)
- Fig. 12 Porter's Five Forces Analysis
- Fig. 13 Market Penetration Vs Growth Prospect Mapping, 2022
- Fig. 14 DNA Synthesis Market: Product Key Takeaways
- Fig. 15 Global DNA Synthesis Market, 2018 - 2030 (USD Million)
- Fig. 16 Global DNA Synthesis Market, for Service Type, 2018 - 2030 (USD Million)
- Fig. 17 Global DNA Synthesis Market, for Oligonucleotide Synthesis, 2018 - 2030 (USD Million)
- Fig. 18 Global DNA Synthesis Market, for Standard Oligonucleotide Synthesis, 2018 - 2030 (USD Million)
- Fig. 19 Global DNA Synthesis Market, for Custom Oligonucleotide Synthesis, 2018 - 2030 (USD Million)
- Fig. 20 Global DNA Synthesis Market, for Gene Synthesis, 2018 - 2030 (USD Million)
- Fig. 21 Global DNA Synthesis Market, for Custom Gene Synthesis, 2018 - 2030 (USD Million)
- Fig. 22 Global DNA Synthesis Market, for Gene Library Synthesis, 2018 - 2030 (USD Million)
- Fig. 23 Global DNA Synthesis Market, for Application, 2018 - 2030 (USD Million)
- Fig. 24 Global DNA Synthesis Market, for Research & Development, 2018 - 2030 (USD Million)
- Fig. 25 Global DNA Synthesis Market, for Diagnostics, 2018 - 2030 (USD Million)
- Fig. 26 Global DNA Synthesis Market, for Therapeutics, 2018 - 2030 (USD Million)
- Fig. 27 Global DNA Synthesis Market, for End-Use, 2018 - 2030 (USD Million)
- Fig. 28 Global DNA Synthesis Market, for Biopharmaceutical Companies, 2018 - 2030

(USD Million)

Fig. 29 Global DNA Synthesis Market, for Academic & Research Institutes, 2018 - 2030

(USD Million)

Fig. 30 Global DNA Synthesis Market, for Contract Research Organizations, 2018 - 2030 (USD Million)

Fig. 31 Global DNA Synthesis Market - Regional Outlook, 2022 & 2030

Fig. 32 North America DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 33 U.S. DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 34 Canada DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 35 Europe DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 36 Germany DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 37 U.K. DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 38 France DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 39 Italy DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 40 Spain DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 41 Denmark DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 42 Sweden DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 43 Norway DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 44 Asia Pacific DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 45 Japan DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 46 China DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 47 India DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 48 Australia DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 49 Thailand DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 50 South Korea DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 51 Latin America DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 52 Brazil DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 53 Mexico DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 54 Argentina DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 55 Middle East and Africa DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 56 South Africa DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 57 Saudi Arabia DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 58 UAE DNA Synthesis Market, 2018 - 2030 (USD Million)

Fig. 59 Kuwait DNA Synthesis Market, 2018 - 2030 (USD Million)

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