

Global Solid-phase DNA Synthesizer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Solid-phase DNA Synthesizer market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Solid-phase DNA synthesizers use solid-phase synthesis to fix one end of the DNA chain (usually the 3' end) on a specific matrix (such as CPG carrier), and then add nucleotides in sequence from 3' to 5' until the desired DNA fragment is synthesized. This synthesis method greatly improves the efficiency and accuracy of DNA synthesis through automated operation. Solid-phase DNA synthesizers are widely used in biomedicine, genetic engineering, agricultural biotechnology and other fields. For example, in the development of new drugs, solid-phase DNA synthesizers can be used to synthesize specific gene sequences to study the functions and regulatory mechanisms of genes; in the field of gene editing, solid-phase DNA synthesizers can be used to synthesize key components such as guide RNA of the CRISPR-Cas system.

DNA synthesizers are widely used in biomedicine, genetic engineering, agricultural biotechnology and other fields. Especially in the field of biomedicine, DNA synthesizers play an important role in new drug research and development, gene editing, disease diagnosis and other aspects. With the rapid development of these fields, the market demand for DNA synthesizers will continue to increase. With the continuous development of cutting-edge technologies such as synthetic biology and gene editing

technology, the synthesis efficiency, accuracy and cost control ability of DNA synthesizers have been significantly improved. The new generation of DNA synthesizers is expected to achieve large-scale, rapid and accurate synthesis of DNA sequences, providing more possibilities for research and application in biomedicine, genetic engineering and other fields. In summary, the solid-phase DNA synthesizer market is in a rapid development stage worldwide. In the future, the DNA synthesizer market will usher in a broader development prospect.

This report is a detailed and comprehensive analysis for global Solid-phase DNA Synthesizer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-phase DNA Synthesizer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solid-phase DNA Synthesizer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solid-phase DNA Synthesizer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solid-phase DNA Synthesizer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Solid-phase DNA Synthesizer
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-phase DNA Synthesizer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Danaher, Thermo Fisher Scientific, GenScript, Integrated DNA Technologies, Applied Biosystems, Expedite, Cytiva, BioAutomation, LGC Biosearch Technologies, Glen Research, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid-phase DNA Synthesizer market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Semi-automatic Synthesizer

Fully-automatic Synthesizer

Market segment by Application

Biomedicine

Agriculture

Other

Major players covered

Danaher

Thermo Fisher Scientific

GenScript

Integrated DNA Technologies

Applied Biosystems

Expedite

Cytiva

BioAutomation

LGC Biosearch Technologies

Glen Research

K&A Laborgeraete

Biolytic Lab Performance

Polygen

Jiangsu Hanbang Technology

Suzhou Insai Intelligent Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid-phase DNA Synthesizer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid-phase DNA Synthesizer, with price, sales quantity, revenue, and global market share of Solid-phase DNA Synthesizer from 2020 to 2025.

Chapter 3, the Solid-phase DNA Synthesizer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid-phase DNA Synthesizer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Solid-phase DNA Synthesizer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid-phase DNA Synthesizer.

Chapter 14 and 15, to describe Solid-phase DNA Synthesizer sales channel, distributors, customers, research findings and conclusion.

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