

Global DNA Biosensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DNA Biosensor market size is expected to reach \$ 62225 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A DNA biosensor is an analytical device that uses a DNA molecule or a DNA-related biological element as the recognition component to detect specific biological, chemical, or genetic targets. It typically combines a DNA probe with a physicochemical transducer (such as optical, electrochemical, or piezoelectric systems) to convert the DNA?target interaction (e.g., hybridization with complementary DNA/RNA) into a measurable signal. DNA biosensors are widely used in genetic testing, pathogen detection, environmental monitoring, and biomedical diagnostics. In 2025, global DNA biosensor production reached approximately 885.71 M units, with an average global market price of around US\$ 35 per unit. Annual production capacity is 1.08 B units. Gross Profit Margin: 48.3%. The DNA biosensor industry chain is structured around three core layers: upstream materials, midstream device & assay manufacturing, and downstream applications. Upstream includes enzymes (polymerases, ligases), nucleic acid probes, functionalized nanoparticles, microelectronic chips, and biochemical reagents. Midstream is dominated by instrument and platform manufacturers such as PCR systems, sequencing platforms, and electrochemical/optical biosensor devices, where companies integrate biological recognition elements with signal transduction technologies. Downstream demand comes primarily from clinical diagnostics, infectious disease testing, oncology screening, food safety, and environmental monitoring. The DNA biosensor market is transitioning from centralized laboratory testing toward decentralized, rapid, and multiplexed diagnostics. Growth is driven by increasing demand for early disease detection, aging populations, and expansion of point-of-care testing. Competitive advantage is shifting from single-test sensitivity toward integrated system performance, including speed, automation, and data connectivity. In the long

term, convergence between biosensors, sequencing technologies, and AI-based diagnostics will reshape the industry into a data-driven precision healthcare infrastructure.

This report studies the global DNA Biosensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DNA Biosensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of DNA Biosensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DNA Biosensor total production and demand, 2021-2032, (K Units)

Global DNA Biosensor total production value, 2021-2032, (USD Million)

Global DNA Biosensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global DNA Biosensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: DNA Biosensor domestic production, consumption, key domestic manufacturers and share

Global DNA Biosensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global DNA Biosensor production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global DNA Biosensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global DNA Biosensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Roche Diagnostics, Abbott Laboratories, Danaher Corporation Cepheid, Thermo Fisher Scientific, Siemens Healthineers, Illumina, Qiagen, Becton Dickinson, BioMérieux, Hologic, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World DNA Biosensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Product Form, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global DNA Biosensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DNA Biosensor Market, Segmentation by Product Form:

Disposable DNA Test Strips

Lab Cartridge Systems

Microarray-based Biosensors

Others

Global DNA Biosensor Market, Segmentation by Transduction Principle:

Electrochemical DNA Biosensors

Optical DNA Biosensors

Piezoelectric DNA Biosensors

Thermal DNA Biosensors

Global DNA Biosensor Market, Segmentation by Sensitivity:

Ultra-sensitive Biosensors? fM?pM level?

High Sensitivity?pM?nM level)

Standard Sensitivity(nM??M level)

Global DNA Biosensor Market, Segmentation by Application:

Medical & Clinical

Food & Agricultural

Environmental

Others

Companies Profiled:

Roche Diagnostics

Abbott Laboratories

Danaher Corporation Cepheid

Thermo Fisher Scientific

Siemens Healthineers

Illumina

Qiagen

Becton Dickinson

BioMérieux

Hologic

Sysmex Corporation

QuidelOrtho Corporation

Bio Rad Laboratories

Agilent Technologies

Oxford Nanopore Technologies

Jiangsu Mole Bioscience Co., Ltd.

Shanghai ZJ Bio-Tech Co., Ltd.

BGI Genomics

MGI Tech

Daan Gene Co., Ltd.

Key Questions Answered:

1. How big is the global DNA Biosensor market?
2. What is the demand of the global DNA Biosensor market?
3. What is the year over year growth of the global DNA Biosensor market?

4. What is the production and production value of the global DNA Biosensor market?
5. Who are the key producers in the global DNA Biosensor market?
6. What are the growth factors driving the market demand?

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