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Global Cell-Free DNA (cfDNA) Blood Collection Tube Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GB9983D9FD9DEN.html
Date: July 2026
Pages: 154
Price: US$ 4,480.00 (Single User License)
ID: GB9983D9FD9DEN

Abstracts

The global Cell-Free DNA (cfDNA) Blood Collection Tube market size is expected to reach $ 185 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global Cell-Free DNA (cfDNA) Blood Collection Tube production reached approximately 25.5 million units, with an average global market price of around US$4.42 per unit. Cell-Free DNA (cfDNA) Blood Collection Tube is a specialized, direct-draw blood collection tube preloaded with chemical preservatives that stabilize the integrity of cfDNA in a blood sample. It is primarily used to isolate high-quality, free-floating DNA fragments from blood plasma for advanced genetic testing.
Global demand for cell-free DNA (cfDNA) blood collection tubes is directly driven by the deepening clinical application of liquid biopsy technologies. Expanding use cases such as oncology companion diagnostics and non-invasive prenatal testing raise higher standards for the integrity and purity of circulating nucleic acids in blood samples. Standard collection tubes cannot meet pre-analytical requirements for room-temperature long-haul transportation and stable sample storage, making specialized preservation tubes a rigid supporting consumable for downstream molecular testing workflows. Continuous iteration of detection technologies further lifts performance thresholds for pre-processing consumables, driving synchronous upgrades of preservation formulas and tube designs.

The market has a concentrated competitive landscape. Leading players build solid barriers through core preservation solution patents, mature clinical validation data and global compliance qualifications. Their products align deeply with downstream assay kits and automated extraction workflows, with long-term stable procurement partnerships with large reference laboratories and diagnostic enterprises, creating high

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customer switching costs. New entrants face multiple thresholds in R&D, regulatory registration and channel validation, with market resources converging toward enterprises with technological and compliance strengths.

On the regulatory front, major markets enforce strict medical device access rules for such in vitro diagnostic consumables. The US FDA classifies them as Class II medical devices with special control standards. China has issued regulations on clinical translation of biomedical technologies to clarify compliance pathways and standardize industry development. Regionally, North America maintains steady demand backed by a mature third-party diagnostic system, while the Asia-Pacific sees stronger demand growth alongside precision medicine policy advancement and rising testing penetration.

This report studies the global Cell-Free DNA (cfDNA) Blood Collection Tube production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cell-Free DNA (cfDNA) Blood Collection Tube 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 Cell-Free DNA (cfDNA) Blood Collection Tube that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Cell-Free DNA (cfDNA) Blood Collection Tube total production and demand, 2021-2032, (K Units)
Global Cell-Free DNA (cfDNA) Blood Collection Tube total production value, 2021-2032, (USD Million)
Global Cell-Free DNA (cfDNA) Blood Collection Tube production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Cell-Free DNA (cfDNA) Blood Collection Tube consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Cell-Free DNA (cfDNA) Blood Collection Tube domestic production, consumption, key domestic manufacturers and share
Global Cell-Free DNA (cfDNA) Blood Collection Tube production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Cell-Free DNA (cfDNA) Blood Collection Tube production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Cell-Free DNA (cfDNA) Blood Collection Tube production by Application,

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production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Cell-Free DNA (cfDNA) Blood Collection Tube 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, Streck, QIAGEN, Norgen Biotek, SARSTEDT, Exact Sciences, Sekisui Medical, Zymo Research, MagBio Genomics, Nonacus, 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 Cell-Free DNA (cfDNA) Blood Collection Tube 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 Type, 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 Cell-Free DNA (cfDNA) Blood Collection Tube Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Cell-Free DNA (cfDNA) Blood Collection Tube Market, Segmentation by Type:

5mL

10mL

Others

Global Cell-Free DNA (cfDNA) Blood Collection Tube Market, Segmentation by Function:

cfDNA-only Collection Tube

cfDNA/cfRNA Preservation Tube

Global Cell-Free DNA (cfDNA) Blood Collection Tube Market, Segmentation by Material:

Glass Material

PET Material

Global Cell-Free DNA (cfDNA) Blood Collection Tube Market, Segmentation by Application:

NIPT

Oncology Liquid Biopsy

Transplant Monitoring

Others

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Companies Profiled:

Roche

Streck

QIAGEN

Norgen Biotek

SARSTEDT

Exact Sciences

Sekisui Medical

Zymo Research

MagBio Genomics

Nonacus

BD

Cwbio IT Group

Guangzhou Improve Medical Instruments

BEAVER

Lake Bio

Xiamen Zhixuan Biotechnology

Magen Biotechnology

Key Questions Answered:

1. How big is the global Cell-Free DNA (cfDNA) Blood Collection Tube market?

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2. What is the demand of the global Cell-Free DNA (cfDNA) Blood Collection Tube market?
3. What is the year over year growth of the global Cell-Free DNA (cfDNA) Blood Collection Tube market?
4. What is the production and production value of the global Cell-Free DNA (cfDNA) Blood Collection Tube market?
5. Who are the key producers in the global Cell-Free DNA (cfDNA) Blood Collection Tube market?
6. What are the growth factors driving the market demand?

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