

Specimen Collection Cards Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Type (Blood, Saliva, Urine, Buccal cells, others), By Material (Cotton & Cellulose-based, Fiber-based, others), by Product (Whatman 903, Ahlstrom 226, FTA, others), by Application (Newborn Screening (NBS), Infectious Diseases Testing, Therapeutic Drug Monitoring, Forensics, Research, Wellbeing/Health Monitoring, others), by Distribution Channel (Online, Offline), By End User (Hospitals & clinics, Diagnostics centers, others), By Region, Competition

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Abstracts

The Global Specimen Collection Cards Market achieved a valuation of USD 434.34 Million in 2022 and is expected to maintain steady growth throughout the forecast period, with a Compound Annual Growth Rate (CAGR) of 4.72% and expected to reach USD 570.12 Million through 2028. Specimen collection cards, also known as filter paper cards or sample collection cards, represent specialized paper or card substrates designed for the collection, transportation, and preservation of biological samples, including blood, saliva, urine, and tissue, for various purposes such as diagnostic testing, research, and screening.

These cards provide a convenient and efficient means of sample collection, particularly in remote or resource-constrained settings, while ensuring sample stability during

transport and storage. Specimen collection cards are crafted from materials with exceptional absorption properties, allowing them to efficiently collect and retain biological fluids, thereby enabling the preservation of a small sample volume on the card. These materials often incorporate stabilizers to maintain the integrity of collected samples, including DNA, RNA, proteins, and other biomolecules, during storage and transportation.

The escalating demand for precise and early diagnostic testing for a broad spectrum of medical conditions, encompassing infectious diseases and chronic ailments, has fuelled the need for efficient specimen collection methods such as specimen collection cards. Global health crises, such as the COVID-19 pandemic, have underscored the significance of efficient and secure specimen collection methods, with specimen collection cards being employed for remote testing, contact tracing, and surveillance during such outbreaks. Moreover, the adoption of specimen collection cards in newborn screening programs has surged, as these cards offer a straightforward, efficient, and minimally invasive approach. These advances are attributed to technological enhancements in specimen collection card materials, superior design for enhanced transport stability, and integration with automated testing procedures.

Key Market Drivers:

- 1. Increasing Use of Newborn Screening Programs:** Newborn screening programs are public health initiatives aimed at the early identification and diagnosis of various genetic, metabolic, and congenital disorders in newborns shortly after birth. These programs enable timely medical interventions and treatments, potentially improving long-term health outcomes. As a result, the demand for specimen collection cards used in these programs is on the rise.
- 2. Rise in Diagnostic Testing:** The growing emphasis on accurate and early disease detection has driven the demand for diagnostic testing. Technological advancements in diagnostic testing methods, including molecular diagnostics and genetic testing, have contributed to the trend of early detection and personalized medicine, further boosting the need for specimen collection cards.
- 3. Technological Advancements:** Technological advancements in specimen collection cards have led to improved absorption materials, preservation stabilizers, and features like integrated barcodes or QR codes for sample tracking. These enhancements have made specimen collection cards more efficient and compatible with automated laboratory workflows.

Key Market Challenges:

1. **Compatibility with Tests and Technologies:** Specimen collection cards must cater to the specific requirements and sensitivities of different diagnostic tests and technologies. Ensuring compatibility with various assay platforms and sample types can be challenging.
2. **Sample Integrity and Stability:** Maintaining the quality and stability of collected samples on specimen collection cards is critical for accurate testing. Factors such as temperature, humidity, and exposure to light can impact sample integrity.

Key Market Trends:

1. **Integration with Lab Automation:** Integrating specimen collection cards with laboratory automation systems streamlines sample handling, reduces errors, and enhances overall laboratory efficiency. It enables high-throughput testing and ensures standardized procedures.

Segmental Insights:

Type Insights: In 2022, the blood sample segment dominated the Global Specimen Collection Cards Market with a share of 89.88%. The success of this segment is attributed to the global popularity of dry blood spot collection cards and the demand driven by newborn screening regulations.

Material Insights: In 2022, cotton and cellulose-based materials held the majority share (55.98%) in the Global Specimen Collection Cards Market. These materials offer benefits such as efficient specimen collection and preservation, contributing to their widespread use.

Product Insights: The Whatman 903 product segment led the market in 2022, with a share of 41.86%. The segment is expected to grow significantly due to government-sponsored initiatives and research studies.

Distribution Channel Insights: In 2022, the offline distribution channel segment accounted for 70.25% of the market. Pharmacies, healthcare clinics, and diagnostic laboratories are key offline channels for specimen collection cards.

Application Insights: The newborn screening segment held a substantial share of 25.25% in 2022 and is anticipated to continue growing. Improved newborn screening practices, government policies, and research efforts are driving segment expansion.

End-user Insights: Hospitals and clinics represented the largest end-user segment in 2022, with a share of 74.94%. The implementation of newborn screening regulations in various regions contributed to this dominance.

Regional Insights:

The North America region emerged as the market leader in 2022, with a share of 41.55%. Factors such as the demand for drug profiling and robust healthcare systems have fueled market growth in this region. Government support for research has also contributed to market expansion.

Key Market Players

QIAGEN LLC

PerkinElmer, Inc.

DBS System SA

Danaher Corporation

Eastern Business Forms, Inc.

Ahlstrom Oyj

ARCHIMED Life Science GmbH

GenTegra LLC

FortiusBio LLC

CENTOGENE N.V.

Report Scope:

In this report, the Global Specimen Collection Cards Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Specimen Collection Cards Market, By Type:

Blood

Saliva

Urine,

Buccal cells

others

Specimen Collection Cards Market, By Material:

Cotton & Cellulose-based

Fiber-based

Others

Specimen Collection Cards Market, By Product:

Whatman 903

Ahlstrom 226

FTA

others

Specimen Collection Cards Market, By Application:

Newborn Screening (NBS)

Infectious Diseases Testing

Therapeutic Drug Monitoring

Forensics

Research

Wellbeing/Health Monitoring

others

Specimen Collection Cards Market, By Distribution Channel:

Offline

Online

Specimen Collection Cards Market, By End User:

Hospitals & clinics

Diagnostics centers

others

Global Specimen Collection Cards Market, By region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

South Korea

Australia

Japan

Europe

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Specimen Collection Cards Market.

Available Customizations:

Global Insulin Storage Devices Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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Detailed analysis and profiling of additional market players (up to five).

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