

# **Blood Glucose Test Strip Packaging Market Forecasts to 2032 – Global Analysis By Type (Individual Foil Wrappers, Vial or Tube Packaging, Pouch Packaging, Cartridge-Based Packaging, Blister Packaging and Other Types), Material Type, Film Type, Technology, Distribution Channel and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Blood Glucose Test Strip Packaging Market is accounted for \$2.4 billion in 2025 and is expected to reach \$4.4 billion by 2032 growing at a CAGR of 8.6% during the forecast period. Blood glucose test strip packaging refers to specialized containment designed to preserve the integrity and functionality of test strips used for monitoring blood sugar levels. These packages protect the strips from moisture, contamination, and external damage, ensuring accurate readings. Typically made from durable, moisture-resistant materials, the packaging maintains sterility while allowing easy access for users. Advanced designs incorporate features like resealable closures, individual compartments, and tamper-evident seals to enhance usability and safety.

According to the UNICEF target product profile, 1st edition, access to diagnostic laboratories remains a key challenge in low-resource settings. Point-of-care diagnostic tests enable healthcare workers to provide more rapid and effective care.

Market Dynamics:

Driver:

Increased home-based testing and remote patient monitoring

As diabetes prevalence rises globally, individuals are prioritizing convenient and accessible solutions for blood glucose management. Home-based testing allows patients to monitor their glucose levels without frequent hospital visits, reducing healthcare costs and improving disease management. Additionally, advancements in digital health technologies are enabling seamless integration of test strip packaging with smart monitoring devices, enhancing user experience.

#### Restraint:

##### Complex manufacturing and supply chain requirements

Manufacturers must adhere to regulatory standards, ensuring that packaging materials do not compromise the integrity of test strips. Additionally, sourcing specialized materials such as moisture-resistant films and tamper-evident seals adds to production costs. Supply chain disruptions, including raw material shortages and transportation challenges, can impact timely distribution, affecting market growth.

#### Opportunity:

##### Growing focus on biodegradable or recyclable materials

As environmental concerns rise, healthcare industries are shifting toward sustainable packaging solutions to reduce plastic waste. Manufacturers are exploring eco-friendly alternatives such as biodegradable films and recyclable containers to align with global sustainability goals. Regulatory bodies are also encouraging the adoption of green packaging practices, prompting companies to invest in innovative materials. Additionally, consumer awareness regarding environmental impact is influencing purchasing decisions, driving demand for sustainable healthcare products.

#### Threat:

##### Substitution by continuous glucose monitoring (CGM) devices

CGM technology offers real-time glucose tracking without the need for frequent finger-prick tests, reducing reliance on traditional test strips. As CGM adoption increases, particularly among individuals with advanced diabetes management needs, demand for blood glucose test strips may decline. Additionally, healthcare providers are advocating for CGM devices due to their ability to provide comprehensive glucose trend analysis,

improving treatment outcomes.

#### Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the blood glucose test strip packaging market, influencing both supply chains and consumer behavior. While initial disruptions in manufacturing and logistics led to temporary shortages, the crisis also heightened awareness of diabetes management. Patients prioritized home-based testing to minimize hospital visits, increasing demand for test strips and reliable packaging solutions. The shift toward telemedicine and remote healthcare consultations further supported market growth, as individuals sought convenient monitoring tools.

The vials/tubes segment is expected to be the largest during the forecast period

The vials/tubes segment is expected to account for the largest market share during the forecast period due to its widespread use in test strip storage. Vials and tubes provide superior protection against moisture, contamination, and physical damage, ensuring the accuracy of blood glucose readings. Their resealable design enhances convenience, allowing users to access test strips while maintaining sterility.

The aluminum segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the aluminum segment is predicted to witness the highest growth rate driven by its superior barrier properties and sustainability advantages. Aluminum packaging offers excellent moisture resistance, ensuring the longevity of test strips in various environmental conditions. Additionally, its recyclability aligns with the growing focus on eco-friendly healthcare solutions, making it an attractive option for manufacturers. The segment is benefiting from technological advancements in lightweight aluminum packaging, enhancing portability and user convenience.

#### Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share driven by high diabetes prevalence and strong healthcare infrastructure. The region has a well-established medical device industry, with leading manufacturers investing in advanced packaging technologies. Additionally, consumer awareness regarding diabetes management and preventive healthcare is fueling demand for reliable test strip packaging solutions.

### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR fueled by rising healthcare investments, increasing diabetes cases, and expanding access to medical devices. Countries such as China, India, and Japan are experiencing a surge in demand for blood glucose monitoring tools, driving packaging innovations. Government initiatives promoting diabetes awareness and early diagnosis are further supporting market expansion.

### Key players in the market

Some of the key players in Blood Glucose Test Strip Packaging Market include Abbott, ACON Laboratories Inc., AgaMatrix, Amcor, Aptar CSP Technologies, ARKRAY Inc., Ascensia Diabetes Care, Bionime Corporation, LifeScan IP Holdings LLC, Multisorb, Procurennet Limited, Roche, Rossmax International Ltd, Sanner, Shijiazhuang Xinfuda Medical Packaging Co., Ltd., Trividia Health Inc., Wisesorbent Technology, and YuHuan KangJia.

### Key Developments:

In November 2024, Ascensia Diabetes Care, in collaboration with Fitterfly Healthtech, launched a 21-day Diabetes Management Program on World Diabetes Day. This initiative offers Ascensia glucometer users personalized support, including diet plans, AI wellness coaching, and expert guidance to simplify diabetes management.

In September 2024, Aptar CSP's N-Sorb Nitrosamine Mitigation Solution was accepted into the US FDA's Emerging Technology Program, addressing concerns related to N-nitrosamine impurities in pharmaceuticals.

### Types Covered:

Individual Foil Wrappers

Vial or Tube Packaging

Pouch Packaging

Cartridge-Based Packaging

Blister Packaging

Other Types

Material Types Covered:

Plastic Films

Aluminum Foils

Paper-Based Laminates

Multi-layer Composite Materials

Film Types Covered:

Thick Film Electrochemical Films

Thin Film Electrochemical Films

Optical Strips

Technologies Covered:

Glucose Oxidase-Based Strips

Glucose Dehydrogenase-Based Strips

Distribution Channels Covered:

Online Retail

Diagnostic Labs

Hospital & Clinics

Pharmacies & Drugstores

Other Distribution Channels

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY TYPE**

*Blood Glucose Test Strip Packaging Market Forecasts to 2032 – Global Analysis By Type (Individual Foil Wrapper...*

- 5.1 Introduction
- 5.2 Individual Foil Wrappers
- 5.3 Vial or Tube Packaging
- 5.4 Pouch Packaging
- 5.5 Cartridge-Based Packaging
- 5.6 Blister Packaging
- 5.7 Other Types

## **6 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY MATERIAL TYPE**

- 6.1 Introduction
- 6.2 Plastic Films
- 6.3 Aluminum Foils
- 6.4 Paper-Based Laminates
- 6.5 Multi-layer Composite Materials

## **7 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY FILM TYPE**

- 7.1 Introduction
- 7.2 Thick Film Electrochemical Films
- 7.3 Thin Film Electrochemical Films
- 7.4 Optical Strips

## **8 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY TECHNOLOGY**

- 8.1 Introduction
- 8.2 Glucose Oxidase-Based Strips
- 8.3 Glucose Dehydrogenase-Based Strips

## **9 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY DISTRIBUTION CHANNEL**

- 9.1 Introduction
- 9.2 Online Retail
- 9.3 Diagnostic Labs
- 9.4 Hospital & Clinics

- 9.5 Pharmacies & Drugstores
- 9.6 Other Distribution Channels

## **10 GLOBAL BLOOD GLUCOSE TEST STRIP PACKAGING MARKET, BY GEOGRAPHY**

- 10.1 Introduction
- 10.2 North America
  - 10.2.1 US
  - 10.2.2 Canada
  - 10.2.3 Mexico
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 UK
  - 10.3.3 Italy
  - 10.3.4 France
  - 10.3.5 Spain
  - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
  - 10.4.1 Japan
  - 10.4.2 China
  - 10.4.3 India
  - 10.4.4 Australia
  - 10.4.5 New Zealand
  - 10.4.6 South Korea
  - 10.4.7 Rest of Asia Pacific
- 10.5 South America
  - 10.5.1 Argentina
  - 10.5.2 Brazil
  - 10.5.3 Chile
  - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia
  - 10.6.2 UAE
  - 10.6.3 Qatar
  - 10.6.4 South Africa
  - 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

## **12 COMPANY PROFILING**

- 12.1 Abbott
- 12.2 ACON Laboratories Inc.
- 12.3 AgaMatrix
- 12.4 Amcor
- 12.5 Aptar CSP Technologies
- 12.6 ARKRAY Inc.
- 12.7 Ascensia Diabetes Care
- 12.8 Bionime Corporation
- 12.9 LifeScan IP Holdings LLC
- 12.10 Multisorb
- 12.11 Procurenent Limited
- 12.12 Roche
- 12.13 Rossmax International Ltd
- 12.14 Sanner
- 12.15 Shijiazhuang Xinfuda Medical Packaging Co., Ltd.
- 12.16 Trividia Health Inc.
- 12.17 Wisesorbent Technology
- 12.18 YuHuan KangJia

## List Of Tables

### LIST OF TABLES

Table 1 Global Blood Glucose Test Strip Packaging Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Blood Glucose Test Strip Packaging Market Outlook, By Type (2024-2032) (\$MN)

Table 3 Global Blood Glucose Test Strip Packaging Market Outlook, By Individual Foil Wrappers (2024-2032) (\$MN)

Table 4 Global Blood Glucose Test Strip Packaging Market Outlook, By Vial or Tube Packaging (2024-2032) (\$MN)

Table 5 Global Blood Glucose Test Strip Packaging Market Outlook, By Pouch Packaging (2024-2032) (\$MN)

Table 6 Global Blood Glucose Test Strip Packaging Market Outlook, By Cartridge-Based Packaging (2024-2032) (\$MN)

Table 7 Global Blood Glucose Test Strip Packaging Market Outlook, By Blister Packaging (2024-2032) (\$MN)

Table 8 Global Blood Glucose Test Strip Packaging Market Outlook, By Other Types (2024-2032) (\$MN)

Table 9 Global Blood Glucose Test Strip Packaging Market Outlook, By Material Type (2024-2032) (\$MN)

Table 10 Global Blood Glucose Test Strip Packaging Market Outlook, By Plastic Films (2024-2032) (\$MN)

Table 11 Global Blood Glucose Test Strip Packaging Market Outlook, By Aluminum Foils (2024-2032) (\$MN)

Table 12 Global Blood Glucose Test Strip Packaging Market Outlook, By Paper-Based Laminates (2024-2032) (\$MN)

Table 13 Global Blood Glucose Test Strip Packaging Market Outlook, By Multi-layer Composite Materials (2024-2032) (\$MN)

Table 14 Global Blood Glucose Test Strip Packaging Market Outlook, By Film Type (2024-2032) (\$MN)

Table 15 Global Blood Glucose Test Strip Packaging Market Outlook, By Thick Film Electrochemical Films (2024-2032) (\$MN)

Table 16 Global Blood Glucose Test Strip Packaging Market Outlook, By Thin Film Electrochemical Films (2024-2032) (\$MN)

Table 17 Global Blood Glucose Test Strip Packaging Market Outlook, By Optical Strips (2024-2032) (\$MN)

Table 18 Global Blood Glucose Test Strip Packaging Market Outlook, By Technology

(2024-2032) (\$MN)

Table 19 Global Blood Glucose Test Strip Packaging Market Outlook, By Glucose Oxidase-Based Strips (2024-2032) (\$MN)

Table 20 Global Blood Glucose Test Strip Packaging Market Outlook, By Glucose Dehydrogenase-Based Strips (2024-2032) (\$MN)

Table 21 Global Blood Glucose Test Strip Packaging Market Outlook, By Distribution Channel (2024-2032) (\$MN)

Table 22 Global Blood Glucose Test Strip Packaging Market Outlook, By Online Retail (2024-2032) (\$MN)

Table 23 Global Blood Glucose Test Strip Packaging Market Outlook, By Diagnostic Labs (2024-2032) (\$MN)

Table 24 Global Blood Glucose Test Strip Packaging Market Outlook, By Hospital & Clinics (2024-2032) (\$MN)

Table 25 Global Blood Glucose Test Strip Packaging Market Outlook, By Pharmacies & Drugstores (2024-2032) (\$MN)

Table 26 Global Blood Glucose Test Strip Packaging Market Outlook, By Other Distribution Channels (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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