

Global Blood Glucose Test Strips Market

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Abstracts

Global Blood Glucose Test Strips Market Overview:

The global blood glucose test strip market accounted for \$9,062 million in 2017 and is expected to reach \$15,046 million by 2026, registering a CAGR of 5.7% from 2018 to 2026.

Diabetes is a disorder in which the patient has an elevated blood glucose level caused due to inefficiency of pancreases to produce insulin. Glucose monitoring is one of the essential step towards diabetes management by monitoring the elevated glucose levels in blood. Monitoring of blood glucose provides important data for patients to make daily management decisions such as amount of food intake, insulin dose, and physical exercise. Blood glucose test strip is a medical device that serves the purpose of measuring the glucose level in blood. Blood glucose test strips form the key component of blood glucose monitor device and is used to determine the concentration of glucose in the blood in diabetic patients. Test strips are small, disposable bands/strips of paper or other material, which are usually made from plastic. These strips are infused with different types of enzymes such as glucose oxidase, glucose dehydrogenase, hexokinase, and others. Enzymes present in the strip react with the glucose present in blood, which indicates the glucose level in the blood. Further, the amount of blood required by a test strip to detect blood glucose level may vary among manufacturers. In general, between 0.5 l and 1 l of blood is required to detect the blood glucose level. In addition, most glucose meters are based on the principle of electrochemical technology. They use electrochemical test strips to measure the glucose level using a small drop of blood. Colorimetric and amperometric methods are the two common types of electrochemical measurement of glucose.

Blood glucose test strips market outlook has witnessed a paradigm shift towards technological advancements over the recent years. Upsurge in the population of

diabetic patients owing to rapid urbanization and sedentary lifestyle across the globe drives the market growth of blood glucose test strips. Diabetes has been declared as a global epidemic by the World Health Organization (WHO), owing to its high prevalence rate. In addition, in 2004, WHO estimated the diabetic population to increase from 171 million in 2000 to 366 million by 2030. In addition, increase in geriatric population across the globe accelerates the market growth. The risk of diabetes increases with age due to loss of muscle mass, obesity, and lack of exercise. For instance, the prevalence of diabetes in the elderly population is almost one-half of the overall diabetic population due to poor diet, dementia, vision loss, and neuropathies. Further, rise in awareness regarding diabetes management, surge in need for faster and safer diagnosis, has shifted the market trend towards self-monitoring devices. However, stringent reimbursement policies and high cost associated with the regular use of these strips are the major factors that hamper the market growth. Furthermore, blood glucose monitoring devices do not accurately measure the exact level of glucose in blood and give a range in which the blood glucose level of a patient may lie. On the contrary, technological advancements in the glucose monitoring devices such as advent of minimally invasive monitoring devices is anticipated to create lucrative opportunities in the near future. Moreover, increase in the investment to develop novel blood glucose test products from government in the developing economies and growing awareness regarding the same in the residents of Asia-Pacific region, especially China, and India, offers profitable blood glucose test strips market insights for the manufacturers exploring untapped economies.

Furthermore, leading manufacturers of blood glucose monitors with the support from government organizations have focused on developing and manufacturing innovative products. These are more portable, inexpensive, reliable and sensitive home-based glucometers that has helped in shaping the market outlook propelling the demand for blood glucose test strips. For instance, DarioHealth Corp., one of the leading digital health companies operating globally with mobile health and big data solutions, announced the approval of the lightning-enabled version of the acclaimed Dario blood glucose monitoring system by the USFDA, which enables the use of the Dario app on iPhone 7, 8, and X smart mobile devices (SMD). Recent developments include introduction of mobile devices for self-monitoring of blood glucose that are integrated with smartphone app that shows test results. For instance, Roche Diabetes Care India, subsidiary of F. Hoffmann-La Roche Ltd., launched new glucometer Accu- Chek Instant S in India on February 2018. This glucometer offers accurate self-monitoring blood glucose and meets the latest global ISO 15197:2013 standards, at an affordable price.

The blood glucose test strips market is categorized into technology, electrode type, and

end users. Based on technology, it is classified into glucose oxidase and glucose dehydrogenase. Based on electrode type, it is classified as thick film, thin film, and optical film. Based on end user, it is classified as hospitals, home settings, and diagnostic centers. Based on region, it is analyzed across the North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in the global blood glucose test strips market include Abbott Laboratories, Ascensia Diabetes Care Holdings AG, F. Hoffmann-La Roche Ltd., Medtronic plc, Johnson & Johnson (LifeScan), Dexcom, Inc., B. Braun Holding GmbH & Co. KG, Nipro Diagnostics, Universal Biosensors Inc., and Apex Biotechnology Corp.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Technology

Glucose Oxidase

Glucose Dehydrogenase

By Electrode Type

Thin Film

Thick Film

Optical Film

By End User

Hospital

Diagnostic Centers

Homecare

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

china

India

Australia

South Korea

Rest of Asia-Pacific

Rest of LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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