

Bioresorbable Medical Material Market By Product Type (Polylactide, Poly-L-lactide, Poly-DL-lactide, Polyglycolide, Polycaprolactone, Others) , By Application (Drug Delivery, Medical Devices, Orthopedics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The bioresorbable medical material market was valued at \$0.4 billion in 2023, and is projected to reach \$1.2 billion by 2033, growing at a CAGR of 10.6% from 2024 to 2033.

Bioresorbable medical material refers to a class of materials designed to dissolve or be absorbed by the body over time after serving their medical purpose. These materials are used in various medical applications, such as implants, sutures, and drug delivery systems, where temporary support or function is required.

Rise in demand for minimally invasive surgical procedures has fueled the adoption of bioresorbable materials, which reduce the need for follow-up surgeries to remove implants or sutures. In addition, increase in prevalence of cardiovascular diseases, orthopedic disorders, and other chronic conditions among aging populations is creating a higher demand for bioresorbable implants and devices, thereby driving the growth of the global bioresorbable medical material market. Moreover, healthcare providers are increasingly focused on improving patient outcomes and reducing the risk of complications, making bioresorbable materials appealing due to their ability to dissolve naturally without requiring additional surgical interventions. Furthermore, the growing field of tissue engineering and regenerative medicine is significantly contributing to the demand for bioresorbable scaffolds and materials that promote tissue repair and regeneration. Increase in awareness among healthcare professionals and patients

regarding the benefits of biocompatible, bioresorbable materials over conventional, non-absorbable alternatives is further driving the market growth. However, high costs associated with development and manufacturing bioresorbable materials restrain the market growth. In addition, availability of established conventional non-resorbable materials like titanium and stainless steel acts as a key deterrent factor of the market. On the contrary, advances in medical device technologies, such as bioresorbable stents and screws, have boosted the adoption of these materials in orthopedic, dental, and cardiovascular applications. Such developments are expected to open new avenues for the expansion of the global market during the forecast period.

The bioresorbable medical material industry is segmented into product type, application, and region. On the basis of product type, the market is bifurcated into polylactide (PLA) , poly-L-lactide (PLLA) , poly-DL-lactide (PDLLA) , polyglycolide (PGA) , polycaprolactone (PCL) , and others. Depending on application, it is divided into drug delivery, medical devices, orthopedics, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product type, the polylactide (PLA) segment is expected to dominate the market from 2024 to 2033.

Depending on application, orthopedics is anticipated to be the largest segment in the bioresorbable medical materials market.

Region wise, North America held the largest market share in terms of revenue in 2023, and is expected to dominate the market during the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the global bioresorbable medical material market include Medtronic, Stryker Corporation, Johnson & Johnson, Boston Scientific Corporation, Smith & Nephew Plc, Zimmer Biomet Holdings, Inc., B . Braun Melsungen AG, KLS Martin Group, Dare Bioscience, Inc., and Amedica Corporation. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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Key Market Segments

By Product Type

Poly lactide

Poly-L-lactide

Poly-DL-lactide

Polyglycolide

Polycaprolactone

Others

By Application

Drug Delivery

Medical Devices

Orthopedics

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Medtronic

Stryker Corporation.

Johnson & Johnson

Boston Scientific Corporation

Smith & Nephew plc

Zimmer Biomet Holdings, Inc.

B . Braun Melsungen AG

KLS Martin Group

Dare Bioscience, Inc.

amedica corporation

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