

Global Polylactic Acid Orthopedic Implant Medical Device Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Polylactic Acid Orthopedic Implant Medical Device market size was valued at US\$ 465 million in 2024 and is forecast to a readjusted size of USD 759 million by 2031 with a CAGR of 7.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Polylactic acid is the most studied and mature material in the field of orthopedic absorbable polymer materials, with good biocompatibility. Polylactic acid has been used in the fields of spine, trauma, sports medicine, etc.; mature products on the market are mainly fixations for craniomaxillofacial and non-load-bearing bone parts. In recent years, the application of bioabsorbable materials in orthopedic implants has also developed rapidly, and is currently mainly used in non-weight-bearing areas, small joints, metacarpophalangeal bones, lateral ankles and other parts. At present, the most widely used orthopedic bioabsorbable materials are mainly composite degradable internal fixation materials; PLA (polylactic acid) composited with other materials (polymer L-/racemic polylactic acid) (PLDLA), PLLA/PGA copolymer; other composite materials (polyethylene terephthalate) (PET), etc. Among them, PLA composited with other materials is currently the most widely used.

This report is a detailed and comprehensive analysis for global Polylactic Acid Orthopedic Implant Medical Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As

the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polylactic Acid Orthopedic Implant Medical Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Polylactic Acid Orthopedic Implant Medical Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Polylactic Acid Orthopedic Implant Medical Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Polylactic Acid Orthopedic Implant Medical Device market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Polylactic Acid Orthopedic Implant Medical Device
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Polylactic Acid Orthopedic Implant Medical Device market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Johnson & Johnson, Zimmer Biomet, Inion, Biorettec, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Polylactic Acid Orthopedic Implant Medical Device market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PLA

PLA Copolymer

Market segment by Application

Trauma

Spinal

Other

Major players covered

Johnson & Johnson

Zimmer Biomet

Inion

Biorettec

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Poly(lactic acid) Orthopedic Implant Medical Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Poly(lactic acid) Orthopedic Implant Medical Device, with price, sales quantity, revenue, and global market share of Poly(lactic acid) Orthopedic Implant Medical Device from 2020 to 2025.

Chapter 3, the Poly(lactic acid) Orthopedic Implant Medical Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Poly(lactic acid) Orthopedic Implant Medical Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Poly(lactic acid) Orthopedic Implant Medical Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Poly(lactic acid) Orthopedic Implant Medical Device.

Chapter 14 and 15, to describe Poly(lactic acid) Orthopedic Implant Medical Device sales channel, distributors, customers, research findings and conclusion.

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