

# Global PLGA Market Size Study & Forecast, by Application, Formulation Type, Biodegradability, End Use and Regional Forecasts 2025-2035

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## Abstracts

The global PLGA (poly(lactic-co-glycolic acid)) market is valued at approximately USD 1.7 billion in 2024 and is projected to expand at a staggering CAGR of 14.21% over the forecast period 2025 to 2035. Widely acclaimed for its biodegradability and biocompatibility, PLGA has emerged as a cornerstone polymer in modern pharmaceutical and biomedical applications. It's the backbone of advanced drug delivery systems, precision tissue engineering scaffolds, and sustained-release implants. As research institutions and biotech companies continuously push the limits of controlled release formulations and regenerative therapies, PLGA's prominence is surging. The rising prevalence of chronic conditions, increasing demand for targeted therapeutics, and innovations in bioresorbable technologies continue to fuel the momentum of this polymer's global footprint.

A critical factor influencing this accelerated adoption is the exponential rise in demand for long-acting injectable drugs and site-specific drug delivery systems, particularly in oncology, infectious diseases, and chronic disorders. PLGA-based microspheres and nanoparticles offer unmatched advantages in enhancing therapeutic efficacy, reducing dosing frequency, and improving patient compliance. Moreover, the market is being further driven by regulatory approvals of PLGA-based formulations and the expanded use of these biodegradable polymers in diagnostic imaging and surgical implants. Simultaneously, the growing shift toward sustainable, bio-based materials within the healthcare and pharmaceutical sectors has strengthened the case for PLGA as a leading-edge solution. The introduction of hybrid composites and customized polymer designs is opening new avenues for precision medicine and multifunctional delivery platforms.

Regionally, North America holds a commanding position in the global PLGA market, underpinned by its robust pharmaceutical infrastructure, deep-rooted research ecosystem, and high healthcare expenditure. The United States, home to many pioneering biotech firms and regulatory-driven innovations, leads regional dominance. Meanwhile, Europe follows closely, driven by strong investments in biopharmaceutical R&D and growing adoption of advanced therapeutic platforms across Germany, France, and the UK. However, Asia Pacific is poised to be the fastest-growing region through 2035, fueled by expanding healthcare access, increasing clinical research activities, and surging demand for affordable and scalable drug delivery systems in countries like China, India, and South Korea. With rising government support and local manufacturing capabilities, the region is quickly evolving into a global hub for PLGA innovation and deployment.

Major market player included in this report are:

BASF SE

Evonik Industries AG

Corbion N.V.

Ashland Global Holdings Inc.

Alkermes Plc

Boehringer Ingelheim

Sigma-Aldrich (Merck KGaA)

Poly-Med Inc.

Shenzhen Esun Industrial Co., Ltd.

Akina, Inc.

Surmodics, Inc.

Synbra Technology B.V.

Mitsubishi Chemical Holdings Corporation

Direct Corporation

NovaMatrix

#### Global PLGA Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Application:

Drug Delivery

Surgical Implants

Tissue Engineering

Diagnostic Imaging

By Formulation Type:

Microspheres

Nanoparticles

Films

Hydrogels

By Biodegradability:

Biodegradable

Non-Biodegradable

By End Use:

Pharmaceuticals

Biotechnology

Research Institutions

By Region:

North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

Rest of Europe

## Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

## Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL PLGA MARKET REPORT SCOPE & METHODOLOGY**

- 1.1. Research Objective
- 1.2. Research Methodology
  - 1.2.1. Forecast Model
  - 1.2.2. Desk Research
  - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
  - 1.4.1. Market Definition
  - 1.4.2. Market Segmentation
- 1.5. Research Assumption
  - 1.5.1. Inclusion & Exclusion
  - 1.5.2. Limitations
  - 1.5.3. Years Considered for the Study

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

### **CHAPTER 3. GLOBAL PLGA MARKET FORCES ANALYSIS**

- 3.1. Market Forces Shaping the Global PLGA Market (2024-2035)
- 3.2. Drivers
  - 3.2.1. Rising demand for long-acting injectable therapeutics
  - 3.2.2. Increasing adoption of biodegradable polymers in drug delivery and surgical implants
- 3.3. Restraints
  - 3.3.1. High production cost and complexity in PLGA formulation
  - 3.3.2. Regulatory challenges in product approval across regions
- 3.4. Opportunities
  - 3.4.1. Surge in demand for personalized medicine and advanced nanocarriers
  - 3.4.2. Expanding R&D activities in tissue engineering and regenerative therapies

## **CHAPTER 4. GLOBAL PLGA INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Forces Model
  - 4.1.1. Bargaining Power of Buyer
  - 4.1.2. Bargaining Power of Supplier
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis and Trends 2025
- 4.8. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL PLGA MARKET SIZE & FORECASTS BY APPLICATION 2025–2035**

- 5.1. Market Overview
- 5.2. Global PLGA Market Performance – Potential Analysis (2025)
- 5.3. Drug Delivery
  - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.3.2. Market Size Analysis, by Region, 2025-2035
- 5.4. Surgical Implants
  - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.4.2. Market Size Analysis, by Region, 2025-2035
- 5.5. Tissue Engineering
  - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.5.2. Market Size Analysis, by Region, 2025-2035
- 5.6. Diagnostic Imaging
  - 5.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.6.2. Market Size Analysis, by Region, 2025-2035

## **CHAPTER 6. GLOBAL PLGA MARKET SIZE & FORECASTS BY FORMULATION TYPE 2025–2035**

- 6.1. Market Overview
- 6.2. Global PLGA Market Performance – Potential Analysis (2025)
- 6.3. Microspheres
  - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.3.2. Market Size Analysis, by Region, 2025-2035
- 6.4. Nanoparticles
  - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.4.2. Market Size Analysis, by Region, 2025-2035
- 6.5. Films
  - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.5.2. Market Size Analysis, by Region, 2025-2035
- 6.6. Hydrogels
  - 6.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.6.2. Market Size Analysis, by Region, 2025-2035

## **CHAPTER 7. GLOBAL PLGA MARKET SIZE & FORECASTS BY BIODEGRADABILITY 2025–2035**

- 7.1. Biodegradable
  - 7.1.1. Market Size Analysis, by Region, 2025-2035
- 7.2. Non-Biodegradable
  - 7.2.1. Market Size Analysis, by Region, 2025-2035

## **CHAPTER 8. GLOBAL PLGA MARKET SIZE & FORECASTS BY END USE 2025–2035**

- 8.1. Pharmaceuticals
  - 8.1.1. Market Size Analysis, by Region, 2025-2035
- 8.2. Biotechnology
  - 8.2.1. Market Size Analysis, by Region, 2025-2035
- 8.3. Research Institutions
  - 8.3.1. Market Size Analysis, by Region, 2025-2035

## **CHAPTER 9. GLOBAL PLGA MARKET SIZE & FORECASTS BY REGION 2025–2035**

9.1. Global PLGA Market, Regional Market Snapshot

9.2. Top Leading & Emerging Countries

9.3. North America PLGA Market

9.3.1. U.S.

9.3.1.1. Application Breakdown, 2025-2035

9.3.1.2. Formulation Breakdown, 2025-2035

9.3.2. Canada

9.3.2.1. Application Breakdown, 2025-2035

9.3.2.2. Formulation Breakdown, 2025-2035

9.4. Europe PLGA Market

9.4.1. UK

9.4.2. Germany

9.4.3. France

9.4.4. Spain

9.4.5. Italy

9.4.6. Rest of Europe

9.5. Asia Pacific PLGA Market

9.5.1. China

9.5.2. India

9.5.3. Japan

9.5.4. Australia

9.5.5. South Korea

9.5.6. Rest of Asia Pacific

9.6. Latin America PLGA Market

9.6.1. Brazil

9.6.2. Mexico

9.7. Middle East and Africa PLGA Market

9.7.1. UAE

9.7.2. Saudi Arabia

9.7.3. South Africa

9.7.4. Rest of Middle East & Africa

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

10.1. Top Market Strategies

10.2. BASF SE

Company Overview

Key Executives

Company Snapshot  
Financial Performance (Subject to Data Availability)  
Product/Services Portfolio  
Recent Development  
Market Strategies  
SWOT Analysis  
10.3. Evonik Industries AG  
10.4. Corbion N.V.  
10.5. Ashland Global Holdings Inc.  
10.6. Alkermes Plc  
10.7. Boehringer Ingelheim  
10.8. Sigma-Aldrich (Merck KGaA)  
10.9. Poly-Med Inc.  
10.10. Shenzhen Esun Industrial Co., Ltd.  
10.11. Akina, Inc.  
10.12. Surmodics, Inc.  
10.13. Synbra Technology B.V.  
10.14. Mitsubishi Chemical Holdings Corporation  
10.15. Durect Corporation  
10.16. NovaMatrix

## List Of Tables

### LIST OF TABLES

- Table 1. Global PLGA Market, Report Scope
- Table 2. Global PLGA Market Estimates & Forecasts by Region, 2024–2035
- Table 3. Global PLGA Market Estimates & Forecasts by Application, 2024–2035
- Table 4. Global PLGA Market Estimates & Forecasts by Formulation Type, 2024–2035
- Table 5. Global PLGA Market Estimates & Forecasts by Biodegradability, 2024–2035
- Table 6. Global PLGA Market Estimates & Forecasts by End Use, 2024–2035
- Table 7. U.S. PLGA Market Breakdown by Application & Formulation, 2024–2035
- Table 8. Canada PLGA Market Breakdown by Application & Formulation, 2024–2035
- Table 9. UK PLGA Market Breakdown, 2024–2035
- Table 10. Germany PLGA Market Breakdown, 2024–2035
- Table 11. France PLGA Market Breakdown, 2024–2035
- Table 12. Spain PLGA Market Breakdown, 2024–2035
- Table 13. Italy PLGA Market Breakdown, 2024–2035
- Table 14. China PLGA Market Breakdown, 2024–2035
- Table 15. India PLGA Market Breakdown, 2024–2035
- Table 16. Japan PLGA Market Breakdown, 2024–2035
- Table 17. Australia PLGA Market Breakdown, 2024–2035
- Table 18. South Korea PLGA Market Breakdown, 2024–2035
- Table 19. Brazil PLGA Market Breakdown, 2024–2035
- Table 20. Mexico PLGA Market Breakdown, 2024–2035
- Table 21. UAE PLGA Market Breakdown, 2024–2035
- Table 22. Saudi Arabia PLGA Market Breakdown, 2024–2035
- Table 23. South Africa PLGA Market Breakdown, 2024–2035

## List Of Figures

### LIST OF FIGURES

- Figure 1. Global PLGA Market, Research Methodology
- Figure 2. Global PLGA Market, Market Estimation Techniques
- Figure 3. Global Market Size Estimates & Forecast Methods
- Figure 4. Global PLGA Market, Key Trends 2025
- Figure 5. Global PLGA Market, Growth Prospects 2024–2035
- Figure 6. Global PLGA Market, Porter’s Five Forces Model
- Figure 7. Global PLGA Market, PESTEL Analysis
- Figure 8. Global PLGA Market, Value Chain Analysis
- Figure 9. PLGA Market by Application, 2025 & 2035
- Figure 10. PLGA Market by Formulation Type, 2025 & 2035
- Figure 11. PLGA Market by Biodegradability, 2025 & 2035
- Figure 12. PLGA Market by End Use, 2025 & 2035
- Figure 13. North America PLGA Market, 2025 & 2035
- Figure 14. Europe PLGA Market, 2025 & 2035
- Figure 15. Asia Pacific PLGA Market, 2025 & 2035
- Figure 16. Latin America PLGA Market, 2025 & 2035
- Figure 17. Middle East & Africa PLGA Market, 2025 & 2035
- Figure 18. Global PLGA Market, Company Market Share Analysis (2025)

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