

Global Poly(D Lactide) (PDLA) Market Research Report 2025(Status and Outlook)

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Abstracts

Poly(D Lactide) (PDLA) is a high-performance biodegradable polymer derived from renewable resources such as corn starch or sugarcane, characterized by its high crystallinity, thermal stability, and stereochemical purity due to its exclusively D-configured lactic acid monomer units. It is widely used in medical applications including surgical sutures, drug delivery systems, and orthopedic implants due to its biocompatibility and controlled degradation profile, as well as in specialized packaging, 3D printing filaments, and environmentally sustainable products where its mechanical strength and hydrolysis resistance offer advantages over other bioplastics like poly(L-lactide) (PLLA) or blends.

The global Poly(D Lactide) (PDLA) market size was estimated at USD 165.0 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 12.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Poly(D Lactide) (PDLA) market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Poly(D

Lactide) (Pdla) market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Poly(D Lactide) (Pdla) market.

Global Poly(D Lactide) (Pdla) Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Merck KGaA
Polylactide
BMG In.
Chemodex Ltd.
Glentham Life Sciences
YES TOP APPLIED MATERIALS CO.LTD.
Japan Material Technologies Corporation
CD Bioparticles
Wuhan Haishan Technology Co.Ltd
Jilin Folialux Bio-Tech Co.,Ltd
Shenzhen Boli Biomaterials Co.Ltd

Market Segmentation (by Type)

Less than 1dL/g

1-2.5dL/g

2.5-4dL/g

Over 4dL/g

Market Segmentation (by Application)

Biomaterial Research

Medical Consumables

Absorbable Stent

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Poly(D Lactide) (PdlA) Market

Overview of the regional outlook of the Poly(D Lactide) (PdlA) Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Poly(D Lactide) (PdlA) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Poly(D Lactide) (Pdla), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Poly(D Lactide) (PdlA)

1.2 Key Market Segments

1.2.1 Poly(D Lactide) (PdlA) Segment by Type

1.2.2 Poly(D Lactide) (PdlA) Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 POLY(D LACTIDE) (PDLA) MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Poly(D Lactide) (PdlA) Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Poly(D Lactide) (PdlA) Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 POLY(D LACTIDE) (PDLA) MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Poly(D Lactide) (PdlA) Product Life Cycle

3.3 Global Poly(D Lactide) (PdlA) Sales by Manufacturers (2020-2025)

3.4 Global Poly(D Lactide) (PdlA) Revenue Market Share by Manufacturers (2020-2025)

3.5 Poly(D Lactide) (PdlA) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Poly(D Lactide) (PdlA) Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Poly(D Lactide) (PdlA) Market Competitive Situation and Trends

3.8.1 Poly(D Lactide) (PdlA) Market Concentration Rate

3.8.2 Global 5 and 10 Largest Poly(D Lactide) (PdlA) Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 POLY(D LACTIDE) (PDLA) INDUSTRY CHAIN ANALYSIS

- 4.1 Poly(D Lactide) (Pdla) Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF POLY(D LACTIDE) (PDLA) MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Poly(D Lactide) (Pdla) Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Poly(D Lactide) (Pdla) Market
- 5.7 ESG Ratings of Leading Companies

6 POLY(D LACTIDE) (PDLA) MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Poly(D Lactide) (Pdla) Sales Market Share by Type (2020-2025)
- 6.3 Global Poly(D Lactide) (Pdla) Market Size Market Share by Type (2020-2025)
- 6.4 Global Poly(D Lactide) (Pdla) Price by Type (2020-2025)

7 POLY(D LACTIDE) (PDLA) MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Poly(D Lactide) (Pdla) Market Sales by Application (2020-2025)

7.3 Global Poly(D Lactide) (PdlA) Market Size (M USD) by Application (2020-2025)

7.4 Global Poly(D Lactide) (PdlA) Sales Growth Rate by Application (2020-2025)

8 POLY(D LACTIDE) (PDLA) MARKET SALES BY REGION

8.1 Global Poly(D Lactide) (PdlA) Sales by Region

8.1.1 Global Poly(D Lactide) (PdlA) Sales by Region

8.1.2 Global Poly(D Lactide) (PdlA) Sales Market Share by Region

8.2 Global Poly(D Lactide) (PdlA) Market Size by Region

8.2.1 Global Poly(D Lactide) (PdlA) Market Size by Region

8.2.2 Global Poly(D Lactide) (PdlA) Market Size Market Share by Region

8.3 North America

8.3.1 North America Poly(D Lactide) (PdlA) Sales by Country

8.3.2 North America Poly(D Lactide) (PdlA) Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Poly(D Lactide) (PdlA) Sales by Country

8.4.2 Europe Poly(D Lactide) (PdlA) Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Poly(D Lactide) (PdlA) Sales by Region

8.5.2 Asia Pacific Poly(D Lactide) (PdlA) Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Poly(D Lactide) (PdlA) Sales by Country

8.6.2 South America Poly(D Lactide) (PdlA) Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Poly(D Lactide) (PdlA) Sales by Region
- 8.7.2 Middle East and Africa Poly(D Lactide) (PdlA) Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 POLY(D LACTIDE) (PDLA) MARKET PRODUCTION BY REGION

- 9.1 Global Production of Poly(D Lactide) (PdlA) by Region(2020-2025)
- 9.2 Global Poly(D Lactide) (PdlA) Revenue Market Share by Region (2020-2025)
- 9.3 Global Poly(D Lactide) (PdlA) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Poly(D Lactide) (PdlA) Production
 - 9.4.1 North America Poly(D Lactide) (PdlA) Production Growth Rate (2020-2025)
 - 9.4.2 North America Poly(D Lactide) (PdlA) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Poly(D Lactide) (PdlA) Production
 - 9.5.1 Europe Poly(D Lactide) (PdlA) Production Growth Rate (2020-2025)
 - 9.5.2 Europe Poly(D Lactide) (PdlA) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Poly(D Lactide) (PdlA) Production (2020-2025)
 - 9.6.1 Japan Poly(D Lactide) (PdlA) Production Growth Rate (2020-2025)
 - 9.6.2 Japan Poly(D Lactide) (PdlA) Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Poly(D Lactide) (PdlA) Production (2020-2025)
 - 9.7.1 China Poly(D Lactide) (PdlA) Production Growth Rate (2020-2025)
 - 9.7.2 China Poly(D Lactide) (PdlA) Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Merck KGaA

- 10.1.1 Merck KGaA Basic Information
- 10.1.2 Merck KGaA Poly(D Lactide) (PdlA) Product Overview
- 10.1.3 Merck KGaA Poly(D Lactide) (PdlA) Product Market Performance
- 10.1.4 Merck KGaA Business Overview

- 10.1.5 Merck KGaA SWOT Analysis
- 10.1.6 Merck KGaA Recent Developments
- 10.2 Polylactide
 - 10.2.1 Polylactide Basic Information
 - 10.2.2 Polylactide Poly(D Lactide) (Pdla) Product Overview
 - 10.2.3 Polylactide Poly(D Lactide) (Pdla) Product Market Performance
 - 10.2.4 Polylactide Business Overview
 - 10.2.5 Polylactide SWOT Analysis
 - 10.2.6 Polylactide Recent Developments
- 10.3 BMG In.
 - 10.3.1 BMG In. Basic Information
 - 10.3.2 BMG In. Poly(D Lactide) (Pdla) Product Overview
 - 10.3.3 BMG In. Poly(D Lactide) (Pdla) Product Market Performance
 - 10.3.4 BMG In. Business Overview
 - 10.3.5 BMG In. SWOT Analysis
 - 10.3.6 BMG In. Recent Developments
- 10.4 Chemodex Ltd.
 - 10.4.1 Chemodex Ltd. Basic Information
 - 10.4.2 Chemodex Ltd. Poly(D Lactide) (Pdla) Product Overview
 - 10.4.3 Chemodex Ltd. Poly(D Lactide) (Pdla) Product Market Performance
 - 10.4.4 Chemodex Ltd. Business Overview
 - 10.4.5 Chemodex Ltd. Recent Developments
- 10.5 Glentham Life Sciences
 - 10.5.1 Glentham Life Sciences Basic Information
 - 10.5.2 Glentham Life Sciences Poly(D Lactide) (Pdla) Product Overview
 - 10.5.3 Glentham Life Sciences Poly(D Lactide) (Pdla) Product Market Performance
 - 10.5.4 Glentham Life Sciences Business Overview
 - 10.5.5 Glentham Life Sciences Recent Developments
- 10.6 YES TOP APPLIED MATERIALS CO.LTD.
 - 10.6.1 YES TOP APPLIED MATERIALS CO.LTD. Basic Information
 - 10.6.2 YES TOP APPLIED MATERIALS CO.LTD. Poly(D Lactide) (Pdla) Product Overview
 - 10.6.3 YES TOP APPLIED MATERIALS CO.LTD. Poly(D Lactide) (Pdla) Product Market Performance
 - 10.6.4 YES TOP APPLIED MATERIALS CO.LTD. Business Overview
 - 10.6.5 YES TOP APPLIED MATERIALS CO.LTD. Recent Developments
- 10.7 Japan Material Technologies Corporation
 - 10.7.1 Japan Material Technologies Corporation Basic Information
 - 10.7.2 Japan Material Technologies Corporation Poly(D Lactide) (Pdla) Product

Overview

10.7.3 Japan Material Technologies Corporation Poly(D Lactide) (PdlA) Product

Market Performance

10.7.4 Japan Material Technologies Corporation Business Overview

10.7.5 Japan Material Technologies Corporation Recent Developments

10.8 CD Bioparticles

10.8.1 CD Bioparticles Basic Information

10.8.2 CD Bioparticles Poly(D Lactide) (PdlA) Product Overview

10.8.3 CD Bioparticles Poly(D Lactide) (PdlA) Product Market Performance

10.8.4 CD Bioparticles Business Overview

10.8.5 CD Bioparticles Recent Developments

10.9 Wuhan Haishan Technology Co.Ltd

10.9.1 Wuhan Haishan Technology Co.Ltd Basic Information

10.9.2 Wuhan Haishan Technology Co.Ltd Poly(D Lactide) (PdlA) Product Overview

10.9.3 Wuhan Haishan Technology Co.Ltd Poly(D Lactide) (PdlA) Product Market

Performance

10.9.4 Wuhan Haishan Technology Co.Ltd Business Overview

10.9.5 Wuhan Haishan Technology Co.Ltd Recent Developments

10.10 Jilin Folialux Bio-Tech Co.,Ltd

10.10.1 Jilin Folialux Bio-Tech Co.,Ltd Basic Information

10.10.2 Jilin Folialux Bio-Tech Co.,Ltd Poly(D Lactide) (PdlA) Product Overview

10.10.3 Jilin Folialux Bio-Tech Co.,Ltd Poly(D Lactide) (PdlA) Product Market

Performance

10.10.4 Jilin Folialux Bio-Tech Co.,Ltd Business Overview

10.10.5 Jilin Folialux Bio-Tech Co.,Ltd Recent Developments

10.11 Shenzhen Boli Biomaterials Co.Ltd

10.11.1 Shenzhen Boli Biomaterials Co.Ltd Basic Information

10.11.2 Shenzhen Boli Biomaterials Co.Ltd Poly(D Lactide) (PdlA) Product Overview

10.11.3 Shenzhen Boli Biomaterials Co.Ltd Poly(D Lactide) (PdlA) Product Market

Performance

10.11.4 Shenzhen Boli Biomaterials Co.Ltd Business Overview

10.11.5 Shenzhen Boli Biomaterials Co.Ltd Recent Developments

11 POLY(D LACTIDE) (PDLA) MARKET FORECAST BY REGION

11.1 Global Poly(D Lactide) (PdlA) Market Size Forecast

11.2 Global Poly(D Lactide) (PdlA) Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Poly(D Lactide) (PdlA) Market Size Forecast by Country

- 11.2.3 Asia Pacific Poly(D Lactide) (Pdla) Market Size Forecast by Region
- 11.2.4 South America Poly(D Lactide) (Pdla) Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Poly(D Lactide) (Pdla) by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

- 12.1 Global Poly(D Lactide) (Pdla) Market Forecast by Type (2026-2033)
 - 12.1.1 Global Forecasted Sales of Poly(D Lactide) (Pdla) by Type (2026-2033)
 - 12.1.2 Global Poly(D Lactide) (Pdla) Market Size Forecast by Type (2026-2033)
 - 12.1.3 Global Forecasted Price of Poly(D Lactide) (Pdla) by Type (2026-2033)
- 12.2 Global Poly(D Lactide) (Pdla) Market Forecast by Application (2026-2033)
 - 12.2.1 Global Poly(D Lactide) (Pdla) Sales (K MT) Forecast by Application
 - 12.2.2 Global Poly(D Lactide) (Pdla) Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Market Size (M USD) Segment Executive Summary
Table 4. Poly(D Lactide) (Pdla) Market Size Comparison by Region (M USD)
Table 5. Global Poly(D Lactide) (Pdla) Sales (K MT) by Manufacturers (2020-2025)
Table 6. Global Poly(D Lactide) (Pdla) Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Poly(D Lactide) (Pdla) Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Poly(D Lactide) (Pdla) Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Poly(D Lactide) (Pdla) as of 2024)
Table 10. Global Market Poly(D Lactide) (Pdla) Average Price (USD/KG) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Poly(D Lactide) (Pdla) Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Poly(D Lactide) (Pdla) Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Poly(D Lactide) (Pdla) Sales by Type (K MT)
Table 26. Global Poly(D Lactide) (Pdla) Market Size by Type (M USD)
Table 27. Global Poly(D Lactide) (Pdla) Sales (K MT) by Type (2020-2025)
Table 28. Global Poly(D Lactide) (Pdla) Sales Market Share by Type (2020-2025)
Table 29. Global Poly(D Lactide) (Pdla) Market Size (M USD) by Type (2020-2025)

Table 30. Global Poly(D Lactide) (PdlA) Market Size Share by Type (2020-2025)
Table 31. Global Poly(D Lactide) (PdlA) Price (USD/KG) by Type (2020-2025)
Table 32. Global Poly(D Lactide) (PdlA) Sales (K MT) by Application
Table 33. Global Poly(D Lactide) (PdlA) Market Size by Application
Table 34. Global Poly(D Lactide) (PdlA) Sales by Application (2020-2025) & (K MT)
Table 35. Global Poly(D Lactide) (PdlA) Sales Market Share by Application (2020-2025)
Table 36. Global Poly(D Lactide) (PdlA) Market Size by Application (2020-2025) & (M USD)
Table 37. Global Poly(D Lactide) (PdlA) Market Share by Application (2020-2025)
Table 38. Global Poly(D Lactide) (PdlA) Sales Growth Rate by Application (2020-2025)
Table 39. Global Poly(D Lactide) (PdlA) Sales by Region (2020-2025) & (K MT)
Table 40. Global Poly(D Lactide) (PdlA) Sales Market Share by Region (2020-2025)
Table 41. Global Poly(D Lactide) (PdlA) Market Size by Region (2020-2025) & (M USD)
Table 42. Global Poly(D Lactide) (PdlA) Market Size Market Share by Region (2020-2025)
Table 43. North America Poly(D Lactide) (PdlA) Sales by Country (2020-2025) & (K MT)
Table 44. North America Poly(D Lactide) (PdlA) Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Poly(D Lactide) (PdlA) Sales by Country (2020-2025) & (K MT)
Table 46. Europe Poly(D Lactide) (PdlA) Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Poly(D Lactide) (PdlA) Sales by Region (2020-2025) & (K MT)
Table 48. Asia Pacific Poly(D Lactide) (PdlA) Market Size by Region (2020-2025) & (M USD)
Table 49. South America Poly(D Lactide) (PdlA) Sales by Country (2020-2025) & (K MT)
Table 50. South America Poly(D Lactide) (PdlA) Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Poly(D Lactide) (PdlA) Sales by Region (2020-2025) & (K MT)
Table 52. Middle East and Africa Poly(D Lactide) (PdlA) Market Size by Region (2020-2025) & (M USD)
Table 53. Global Poly(D Lactide) (PdlA) Production (K MT) by Region(2020-2025)
Table 54. Global Poly(D Lactide) (PdlA) Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Poly(D Lactide) (PdlA) Revenue Market Share by Region (2020-2025)
Table 56. Global Poly(D Lactide) (PdlA) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
Table 57. North America Poly(D Lactide) (PdlA) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
Table 58. Europe Poly(D Lactide) (PdlA) Production (K MT), Revenue (US\$ Million),

Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Poly(D Lactide) (PdlA) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Poly(D Lactide) (PdlA) Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Merck KGaA Basic Information

Table 62. Merck KGaA Poly(D Lactide) (PdlA) Product Overview

Table 63. Merck KGaA Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Merck KGaA Business Overview

Table 65. Merck KGaA SWOT Analysis

Table 66. Merck KGaA Recent Developments

Table 67. Polylactide Basic Information

Table 68. Polylactide Poly(D Lactide) (PdlA) Product Overview

Table 69. Polylactide Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Polylactide Business Overview

Table 71. Polylactide SWOT Analysis

Table 72. Polylactide Recent Developments

Table 73. BMG In. Basic Information

Table 74. BMG In. Poly(D Lactide) (PdlA) Product Overview

Table 75. BMG In. Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. BMG In. Business Overview

Table 77. BMG In. SWOT Analysis

Table 78. BMG In. Recent Developments

Table 79. Chemodex Ltd. Basic Information

Table 80. Chemodex Ltd. Poly(D Lactide) (PdlA) Product Overview

Table 81. Chemodex Ltd. Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. Chemodex Ltd. Business Overview

Table 83. Chemodex Ltd. Recent Developments

Table 84. Glentham Life Sciences Basic Information

Table 85. Glentham Life Sciences Poly(D Lactide) (PdlA) Product Overview

Table 86. Glentham Life Sciences Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 87. Glentham Life Sciences Business Overview

Table 88. Glentham Life Sciences Recent Developments

Table 89. YES TOP APPLIED MATERIALS CO.LTD. Basic Information

Table 90. YES TOP APPLIED MATERIALS CO.LTD. Poly(D Lactide) (PdlA) Product Overview

Table 91. YES TOP APPLIED MATERIALS CO.LTD. Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 92. YES TOP APPLIED MATERIALS CO.LTD. Business Overview

Table 93. YES TOP APPLIED MATERIALS CO.LTD. Recent Developments

Table 94. Japan Material Technologies Corporation Basic Information

Table 95. Japan Material Technologies Corporation Poly(D Lactide) (PdlA) Product Overview

Table 96. Japan Material Technologies Corporation Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 97. Japan Material Technologies Corporation Business Overview

Table 98. Japan Material Technologies Corporation Recent Developments

Table 99. CD Bioparticles Basic Information

Table 100. CD Bioparticles Poly(D Lactide) (PdlA) Product Overview

Table 101. CD Bioparticles Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 102. CD Bioparticles Business Overview

Table 103. CD Bioparticles Recent Developments

Table 104. Wuhan Haishan Technology Co.Ltd Basic Information

Table 105. Wuhan Haishan Technology Co.Ltd Poly(D Lactide) (PdlA) Product Overview

Table 106. Wuhan Haishan Technology Co.Ltd Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 107. Wuhan Haishan Technology Co.Ltd Business Overview

Table 108. Wuhan Haishan Technology Co.Ltd Recent Developments

Table 109. Jilin Folialux Bio-Tech Co.,Ltd Basic Information

Table 110. Jilin Folialux Bio-Tech Co.,Ltd Poly(D Lactide) (PdlA) Product Overview

Table 111. Jilin Folialux Bio-Tech Co.,Ltd Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 112. Jilin Folialux Bio-Tech Co.,Ltd Business Overview

Table 113. Jilin Folialux Bio-Tech Co.,Ltd Recent Developments

Table 114. Shenzhen Boli Biomaterials Co.Ltd Basic Information

Table 115. Shenzhen Boli Biomaterials Co.Ltd Poly(D Lactide) (PdlA) Product Overview

Table 116. Shenzhen Boli Biomaterials Co.Ltd Poly(D Lactide) (PdlA) Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 117. Shenzhen Boli Biomaterials Co.Ltd Business Overview

Table 118. Shenzhen Boli Biomaterials Co.Ltd Recent Developments

Table 119. Global Poly(D Lactide) (PdlA) Sales Forecast by Region (2026-2033) & (K

MT)

Table 120. Global Poly(D Lactide) (PdlA) Market Size Forecast by Region (2026-2033) & (M USD)

Table 121. North America Poly(D Lactide) (PdlA) Sales Forecast by Country (2026-2033) & (K MT)

Table 122. North America Poly(D Lactide) (PdlA) Market Size Forecast by Country (2026-2033) & (M USD)

Table 123. Europe Poly(D Lactide) (PdlA) Sales Forecast by Country (2026-2033) & (K MT)

Table 124. Europe Poly(D Lactide) (PdlA) Market Size Forecast by Country (2026-2033) & (M USD)

Table 125. Asia Pacific Poly(D Lactide) (PdlA) Sales Forecast by Region (2026-2033) & (K MT)

Table 126. Asia Pacific Poly(D Lactide) (PdlA) Market Size Forecast by Region (2026-2033) & (M USD)

Table 127. South America Poly(D Lactide) (PdlA) Sales Forecast by Country (2026-2033) & (K MT)

Table 128. South America Poly(D Lactide) (PdlA) Market Size Forecast by Country (2026-2033) & (M USD)

Table 129. Middle East and Africa Poly(D Lactide) (PdlA) Sales Forecast by Country (2026-2033) & (Units)

Table 130. Middle East and Africa Poly(D Lactide) (PdlA) Market Size Forecast by Country (2026-2033) & (M USD)

Table 131. Global Poly(D Lactide) (PdlA) Sales Forecast by Type (2026-2033) & (K MT)

Table 132. Global Poly(D Lactide) (PdlA) Market Size Forecast by Type (2026-2033) & (M USD)

Table 133. Global Poly(D Lactide) (PdlA) Price Forecast by Type (2026-2033) & (USD/KG)

Table 134. Global Poly(D Lactide) (PdlA) Sales (K MT) Forecast by Application (2026-2033)

Table 135. Global Poly(D Lactide) (PdlA) Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Poly(D Lactide) (Pdla)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Poly(D Lactide) (Pdla) Market Size (M USD), 2024-2033
- Figure 5. Global Poly(D Lactide) (Pdla) Market Size (M USD) (2020-2033)
- Figure 6. Global Poly(D Lactide) (Pdla) Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Poly(D Lactide) (Pdla) Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Poly(D Lactide) (Pdla) Product Life Cycle
- Figure 13. Poly(D Lactide) (Pdla) Sales Share by Manufacturers in 2024
- Figure 14. Global Poly(D Lactide) (Pdla) Revenue Share by Manufacturers in 2024
- Figure 15. Poly(D Lactide) (Pdla) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Poly(D Lactide) (Pdla) Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Poly(D Lactide) (Pdla) Revenue in 2024
- Figure 18. Industry Chain Map of Poly(D Lactide) (Pdla)
- Figure 19. Global Poly(D Lactide) (Pdla) Market PEST Analysis
- Figure 20. Global Poly(D Lactide) (Pdla) Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Poly(D Lactide) (Pdla) Market Share by Type
- Figure 27. Sales Market Share of Poly(D Lactide) (Pdla) by Type (2020-2025)
- Figure 28. Sales Market Share of Poly(D Lactide) (Pdla) by Type in 2024
- Figure 29. Market Size Share of Poly(D Lactide) (Pdla) by Type (2020-2025)
- Figure 30. Market Size Share of Poly(D Lactide) (Pdla) by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Poly(D Lactide) (Pdla) Market Share by Application

Figure 33. Global Poly(D Lactide) (PdlA) Sales Market Share by Application (2020-2025)

Figure 34. Global Poly(D Lactide) (PdlA) Sales Market Share by Application in 2024

Figure 35. Global Poly(D Lactide) (PdlA) Market Share by Application (2020-2025)

Figure 36. Global Poly(D Lactide) (PdlA) Market Share by Application in 2024

Figure 37. Global Poly(D Lactide) (PdlA) Sales Growth Rate by Application (2020-2025)

Figure 38. Global Poly(D Lactide) (PdlA) Sales Market Share by Region (2020-2025)

Figure 39. Global Poly(D Lactide) (PdlA) Market Size Market Share by Region (2020-2025)

Figure 40. North America Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Poly(D Lactide) (PdlA) Sales Market Share by Country in 2024

Figure 43. North America Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Poly(D Lactide) (PdlA) Market Size Market Share by Country in 2024

Figure 45. U.S. Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Poly(D Lactide) (PdlA) Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Poly(D Lactide) (PdlA) Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Poly(D Lactide) (PdlA) Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Poly(D Lactide) (PdlA) Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Poly(D Lactide) (PdlA) Sales Market Share by Country in 2024

Figure 53. Europe Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Poly(D Lactide) (PdlA) Market Size Market Share by Country in 2024

Figure 55. Germany Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Poly(D Lactide) (PdlA) Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Poly(D Lactide) (PdlA) Sales Market Share by Region in 2024

Figure 67. Asia Pacific Poly(D Lactide) (PdlA) Market Size Market Share by Region in 2024

Figure 68. China Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Poly(D Lactide) (PdlA) Sales and Growth Rate (K MT)

Figure 79. South America Poly(D Lactide) (PdlA) Sales Market Share by Country in 2024

Figure 80. South America Poly(D Lactide) (PdlA) Market Size and Growth Rate (M USD)

Figure 81. South America Poly(D Lactide) (PdlA) Market Size Market Share by Country in 2024

Figure 82. Brazil Poly(D Lactide) (PdlA) Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Poly(D Lactide) (PdlA) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Poly(D Lactide) (Pdla) Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Poly(D Lactide) (Pdla) Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Poly(D Lactide) (Pdla) Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Poly(D Lactide) (Pdla) Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Poly(D Lactide) (Pdla) Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Poly(D Lactide) (Pdla) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Poly(D Lactide) (Pdla) Production Market Share by Region (2020-2025)

Figure 103. North America Poly(D Lactide) (Pdla) Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Poly(D Lactide) (Pdla) Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Poly(D Lactide) (Pdla) Production (K MT) Growth Rate (2020-2025)

Figure 106. China Poly(D Lactide) (Pdla) Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Poly(D Lactide) (PdlA) Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Poly(D Lactide) (PdlA) Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Poly(D Lactide) (PdlA) Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Poly(D Lactide) (PdlA) Market Share Forecast by Type (2026-2033)

Figure 111. Global Poly(D Lactide) (PdlA) Sales Forecast by Application (2026-2033)

Figure 112. Global Poly(D Lactide) (PdlA) Market Share Forecast by Application (2026-2033)

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