

Global Bio-based Lactic Acid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Lactic Acid market size was valued at US\$ 312 million in 2025 and is forecast to a readjusted size of US\$ 523 million by 2032 with a CAGR of 7.5% during review period.

In 2025, global bio-based lactic acid production stood at approximately 184,000 metric tons, with a global average market price of around \$1,650 per metric ton. Total global production capacity for bio-based lactic acid reached approximately 300,000 metric tons that year, and the industry's average gross profit margin was about 21%. Bio-based lactic acid is an α -hydroxy acid (molecular formula $C_3H_5O_3$) obtained through the fermentation, separation, and purification of renewable carbon sources—such as glucose, sucrose, starch hydrolysates, molasses, and lignocellulosic hydrolysates—using lactic acid bacteria or engineered microorganisms. Lactic acid molecules are chiral, existing as L-lactic acid, D-lactic acid, and DL-lactic acid; their optical purity directly influences the crystallinity, heat resistance, and processing performance of the resulting polylactic acid (PLA). While bio-based lactic acid is chemically identical to lactic acid produced via petrochemical routes, its carbon backbone is derived from renewable resources. Currently, industrial lactic acid production primarily utilizes sugar fermentation pathways, yielding products that can be further processed into lactates, lactate esters, lactide, and polylactic acid.

The upstream segment of the bio-based lactic acid industry chain primarily involves agricultural products and processing by-products—such as corn, wheat, cassava, sugarcane, sugar beets, and molasses—as well as fermentation carbon sources like glucose, sucrose, and starch hydrolysates. Medium- to long-term feedstock options also include hydrolysates derived from straw, wood chips, food waste, and other non-food

biomass. Production inputs include microbial strains (e.g., lactic acid bacteria, *Bacillus* species, or engineered yeast) and additives such as saccharifying enzymes, peptone, yeast extract, inorganic salts, pH regulators, and calcium sources for neutralization. Core competitiveness in the upstream sector centers on raw material procurement costs, strain acid-production rates, sugar conversion rates, optical selectivity, and the ability to utilize mixed sugars. The grain-based sugar route offers stable supply and mature technology, whereas the lignocellulosic route reduces reliance on food resources but faces challenges such as high pretreatment costs, the presence of fermentation inhibitors, and inefficient utilization of mixed sugars. The midstream segment comprises lactic acid producers, bio-fermentation companies, and biomaterials enterprises, which primarily handle raw material saccharification, strain cultivation, fermentation, neutralization, cell separation, decolorization, ion exchange, concentration, and purification. Traditional processes typically neutralize fermentation broth with calcium carbonate or calcium hydroxide and subsequently release lactic acid through acidification, a process that can generate gypsum as a by-product; in contrast, novel gypsum-free processes utilize chemical recycling, membrane separation, electrodialysis, or other purification techniques to minimize waste salts and solid by-products. Depending on the intended application, midstream products can be formulated into food-grade, industrial-grade, pharmaceutical-grade, or polymer-grade lactic acid, or further processed into derivatives such as sodium lactate, calcium lactate, ethyl lactate, butyl lactate, and lactide. Polymer-grade lactic acid demands high standards regarding optical purity, moisture content, metal ion levels, and residual sugar content, as these parameters directly influence lactide purity and the molecular weight of the resulting polylactic acid (PLA). Downstream applications for bio-based lactic acid span sectors including food and beverages, animal feed, personal care, industrial cleaning, pharmaceuticals, and bio-based materials. In the food industry, it serves primarily as an acidity regulator, preservative, and flavor enhancer, and is used to produce ingredients like sodium lactate and calcium lactate; the personal care and cleaning sectors leverage its properties for pH adjustment, exfoliation, descaling, and antimicrobial action; the pharmaceutical sector utilizes it in excipients, lactate-based infusions, medical intermediates, and absorbable materials. Materials science represents a key growth area, where polymer-grade lactic acid is polymerized via lactide to form PLA, which is used in packaging, disposable tableware, fibers, 3D printing, agricultural materials, and certain medical products. Future industry development will increasingly focus on an integrated value chain—spanning renewable sugar sources, lactic acid, lactide, and PLA/lactic acid derivatives—while prioritizing the use of non-food feedstocks, optical purity control, low-salt refining processes, and by-product recycling to reduce costs and carbon footprints.

Bio-based lactic acid is not only an established organic acid in the food, pharmaceutical, and personal care sectors but also a core upstream monomer for lactide and polylactic acid (PLA). Driven by rising demand for renewable packaging materials, disposable food service items, fibers, non-woven fabrics, and 3D printing materials, the consumption share of high-optical-purity, polymerization-grade lactic acid continues to grow.

Lactic acid and its salts—valued for their acidity regulation, preservation, antimicrobial properties, and flavor enhancement—are widely used in meat products, dairy, beverages, baked goods, and seasonings. The food industry's emphasis on natural fermentation ingredients, clean-label formulations, and shelf-life extension solutions will drive steady growth in food-grade lactic acid and blended lactate products. Beyond food applications, lactic acid is utilized in personal care, pharmaceuticals, animal nutrition, industrial cleaning, and electronic chemicals; this diversified downstream structure helps buffer the industry against cyclical fluctuations in any single application sector.

Traditional lactic acid production typically involves neutralization, acidification, and desalination steps that generate solid by-products (such as gypsum) and consume significant amounts of water, acids, alkalis, and energy. Moving forward, companies will focus on enhancing strain acid-production concentrations, sugar conversion efficiency, and optical purity, while adopting processes such as membrane separation, electrodialysis, chemical recycling, and continuous fermentation to reduce overall costs.

Major producers are expected to strengthen their integrated "renewable sugar source–lactic acid–lactide–PLA" value chains, capturing higher profits by internally consuming lactic acid and stabilizing raw material supplies. Meanwhile, merchant lactic acid producers will increasingly target pharmaceutical-grade, electronic-grade, and high-optical-purity products, as well as customized derivatives, to mitigate the impact of price competition in commodity markets. At the policy level, the EU's 2025 bioeconomy strategy explicitly aims to expand markets for bio-based materials, biomanufacturing, advanced fermentation, and bio-based chemicals, providing long-term support for lactic acid and its downstream derivatives. However, as new lactic acid and PLA production facilities in Asia come online, the industry may face short-term challenges—including capacity expansion outpacing demand growth, downward pressure on prices, and divergent capacity utilization rates—making cost leadership, secure raw material supplies, and high-end customer certifications critical factors for profitability.

Report Scope

This report is a detailed and comprehensive analysis for global Bio-based Lactic Acid 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 Bio-based Lactic Acid market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Lactic Acid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Lactic Acid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Lactic Acid market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

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 Bio-based Lactic Acid
- 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 Bio-based Lactic Acid 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 Corbion, Lygos, Nature Works LLC, ADM, Anhui BBKA biochemical, Henan Jindan Lactic Acid Technology Co.,Ltd, etc.

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

Bio-based Lactic Acid market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

L-lactic Acid

D-lactic Acid

Market segment by Renewable Raw Material Source

Starch-based Lactic Acid

Sucrose-based Lactic Acid

Molasses-based Lactic Acid

Lignocellulose-based Lactic Acid

Others

Market segment by Production Technology Route

Homofermentative Lactic Acid Fermentation

Heterofermentative Lactic Acid Fermentation

Lactic Acid Bacteria Fermentation

Bacillus Fermentation

Others

Market segment by Physical Form

Lactic Acid Solution

Anhydrous Lactic Acid

Lactic Acid Powder

Market segment by Application

Food Preservation

Pharmaceutical

Cosmetics

Others

Major players covered

Corbion

Lygos

Nature Works LLC

ADM

Anhui BBKA biochemical

Henan Jindan Lactic Acid Technology Co.,Ltd

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)

Chapter Outline

Chapter 1, to describe Bio-based Lactic Acid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Lactic Acid, with price, sales quantity, revenue, and global market share of Bio-based Lactic Acid from 2021 to 2026.

Chapter 3, the Bio-based Lactic Acid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Lactic Acid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Bio-based Lactic Acid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Bio-based Lactic Acid.

Chapter 14 and 15, to describe Bio-based Lactic Acid sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Bio-based Lactic Acid Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 L-lactic Acid

1.3.3 D-lactic Acid

1.4 Market Analysis by Renewable Raw Material Source

1.4.1 Overview: Global Bio-based Lactic Acid Consumption Value by Renewable Raw Material Source: 2021 Versus 2025 Versus 2032

1.4.2 Starch-based Lactic Acid

1.4.3 Sucrose-based Lactic Acid

1.4.4 Molasses-based Lactic Acid

1.4.5 Lignocellulose-based Lactic Acid

1.4.6 Others

1.5 Market Analysis by Production Technology Route

1.5.1 Overview: Global Bio-based Lactic Acid Consumption Value by Production Technology Route: 2021 Versus 2025 Versus 2032

1.5.2 Homofermentative Lactic Acid Fermentation

1.5.3 Heterofermentative Lactic Acid Fermentation

1.5.4 Lactic Acid Bacteria Fermentation

1.5.5 Bacillus Fermentation

1.5.6 Others

1.6 Market Analysis by Physical Form

1.6.1 Overview: Global Bio-based Lactic Acid Consumption Value by Physical Form: 2021 Versus 2025 Versus 2032

1.6.2 Lactic Acid Solution

1.6.3 Anhydrous Lactic Acid

1.6.4 Lactic Acid Powder

1.7 Market Analysis by Application

1.7.1 Overview: Global Bio-based Lactic Acid Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Food Preservation

1.7.3 Pharmaceutical

1.7.4 Cosmetics

1.7.5 Others

1.8 Global Bio-based Lactic Acid Market Size & Forecast

1.8.1 Global Bio-based Lactic Acid Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Bio-based Lactic Acid Sales Quantity (2021-2032)

1.8.3 Global Bio-based Lactic Acid Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Corbion

2.1.1 Corbion Details

2.1.2 Corbion Major Business

2.1.3 Corbion Bio-based Lactic Acid Product and Services

2.1.4 Corbion Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Corbion Recent Developments/Updates

2.2 Lygos

2.2.1 Lygos Details

2.2.2 Lygos Major Business

2.2.3 Lygos Bio-based Lactic Acid Product and Services

2.2.4 Lygos Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Lygos Recent Developments/Updates

2.3 Nature Works LLC

2.3.1 Nature Works LLC Details

2.3.2 Nature Works LLC Major Business

2.3.3 Nature Works LLC Bio-based Lactic Acid Product and Services

2.3.4 Nature Works LLC Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Nature Works LLC Recent Developments/Updates

2.4 ADM

2.4.1 ADM Details

2.4.2 ADM Major Business

2.4.3 ADM Bio-based Lactic Acid Product and Services

2.4.4 ADM Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 ADM Recent Developments/Updates

2.5 Anhui BBKA biochemical

2.5.1 Anhui BBKA biochemical Details

2.5.2 Anhui BBKA biochemical Major Business

- 2.5.3 Anhui BBKA biochemical Bio-based Lactic Acid Product and Services
- 2.5.4 Anhui BBKA biochemical Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 Anhui BBKA biochemical Recent Developments/Updates
- 2.6 Henan Jindan Lactic Acid Technology Co.,Ltd
 - 2.6.1 Henan Jindan Lactic Acid Technology Co.,Ltd Details
 - 2.6.2 Henan Jindan Lactic Acid Technology Co.,Ltd Major Business
 - 2.6.3 Henan Jindan Lactic Acid Technology Co.,Ltd Bio-based Lactic Acid Product and Services
 - 2.6.4 Henan Jindan Lactic Acid Technology Co.,Ltd Bio-based Lactic Acid Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Henan Jindan Lactic Acid Technology Co.,Ltd Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BIO-BASED LACTIC ACID BY MANUFACTURER

- 3.1 Global Bio-based Lactic Acid Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Bio-based Lactic Acid Revenue by Manufacturer (2021-2026)
- 3.3 Global Bio-based Lactic Acid Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Bio-based Lactic Acid by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Bio-based Lactic Acid Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Bio-based Lactic Acid Manufacturer Market Share in 2025
- 3.5 Bio-based Lactic Acid Market: Overall Company Footprint Analysis
 - 3.5.1 Bio-based Lactic Acid Market: Region Footprint
 - 3.5.2 Bio-based Lactic Acid Market: Company Product Type Footprint
 - 3.5.3 Bio-based Lactic Acid Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Bio-based Lactic Acid Market Size by Region
 - 4.1.1 Global Bio-based Lactic Acid Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Bio-based Lactic Acid Consumption Value by Region (2021-2032)
 - 4.1.3 Global Bio-based Lactic Acid Average Price by Region (2021-2032)
- 4.2 North America Bio-based Lactic Acid Consumption Value (2021-2032)
- 4.3 Europe Bio-based Lactic Acid Consumption Value (2021-2032)
- 4.4 Asia-Pacific Bio-based Lactic Acid Consumption Value (2021-2032)

4.5 South America Bio-based Lactic Acid Consumption Value (2021-2032)

4.6 Middle East & Africa Bio-based Lactic Acid Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Bio-based Lactic Acid Sales Quantity by Type (2021-2032)

5.2 Global Bio-based Lactic Acid Consumption Value by Type (2021-2032)

5.3 Global Bio-based Lactic Acid Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Bio-based Lactic Acid Sales Quantity by Application (2021-2032)

6.2 Global Bio-based Lactic Acid Consumption Value by Application (2021-2032)

6.3 Global Bio-based Lactic Acid Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Bio-based Lactic Acid Sales Quantity by Type (2021-2032)

7.2 North America Bio-based Lactic Acid Sales Quantity by Application (2021-2032)

7.3 North America Bio-based Lactic Acid Market Size by Country

7.3.1 North America Bio-based Lactic Acid Sales Quantity by Country (2021-2032)

7.3.2 North America Bio-based Lactic Acid Consumption Value by Country
(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Bio-based Lactic Acid Sales Quantity by Type (2021-2032)

8.2 Europe Bio-based Lactic Acid Sales Quantity by Application (2021-2032)

8.3 Europe Bio-based Lactic Acid Market Size by Country

8.3.1 Europe Bio-based Lactic Acid Sales Quantity by Country (2021-2032)

8.3.2 Europe Bio-based Lactic Acid Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Bio-based Lactic Acid Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Bio-based Lactic Acid Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Bio-based Lactic Acid Market Size by Region
 - 9.3.1 Asia-Pacific Bio-based Lactic Acid Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Bio-based Lactic Acid Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Bio-based Lactic Acid Sales Quantity by Type (2021-2032)
- 10.2 South America Bio-based Lactic Acid Sales Quantity by Application (2021-2032)
- 10.3 South America Bio-based Lactic Acid Market Size by Country
 - 10.3.1 South America Bio-based Lactic Acid Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Bio-based Lactic Acid Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Bio-based Lactic Acid Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Bio-based Lactic Acid Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Bio-based Lactic Acid Market Size by Country
 - 11.3.1 Middle East & Africa Bio-based Lactic Acid Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Bio-based Lactic Acid Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Bio-based Lactic Acid Market Drivers
- 12.2 Bio-based Lactic Acid Market Restraints
- 12.3 Bio-based Lactic Acid Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Bio-based Lactic Acid and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Bio-based Lactic Acid
- 13.3 Bio-based Lactic Acid Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Bio-based Lactic Acid Typical Distributors
- 14.3 Bio-based Lactic Acid Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Bio-based Lactic Acid Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Bio-based Lactic Acid Consumption Value by Renewable Raw Material Source, (USD Million), 2021 & 2025 & 2032

Table 3. Global Bio-based Lactic Acid Consumption Value by Production Technology Route, (USD Million), 2021 & 2025 & 2032

Table 4. Global Bio-based Lactic Acid Consumption Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 5. Global Bio-based Lactic Acid Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Corbion Basic Information, Manufacturing Base and Competitors

Table 7. Corbion Major Business

Table 8. Corbion Bio-based Lactic Acid Product and Services

Table 9. Corbion Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Corbion Recent Developments/Updates

Table 11. Lygos Basic Information, Manufacturing Base and Competitors

Table 12. Lygos Major Business

Table 13. Lygos Bio-based Lactic Acid Product and Services

Table 14. Lygos Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Lygos Recent Developments/Updates

Table 16. Nature Works LLC Basic Information, Manufacturing Base and Competitors

Table 17. Nature Works LLC Major Business

Table 18. Nature Works LLC Bio-based Lactic Acid Product and Services

Table 19. Nature Works LLC Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Nature Works LLC Recent Developments/Updates

Table 21. ADM Basic Information, Manufacturing Base and Competitors

Table 22. ADM Major Business

Table 23. ADM Bio-based Lactic Acid Product and Services

Table 24. ADM Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. ADM Recent Developments/Updates

Table 26. Anhui BBKA biochemical Basic Information, Manufacturing Base and

Competitors

Table 27. Anhui BBKA biochemical Major Business

Table 28. Anhui BBKA biochemical Bio-based Lactic Acid Product and Services

Table 29. Anhui BBKA biochemical Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Anhui BBKA biochemical Recent Developments/Updates

Table 31. Henan Jindan Lactic Acid Technology Co.,Ltd Basic Information, Manufacturing Base and Competitors

Table 32. Henan Jindan Lactic Acid Technology Co.,Ltd Major Business

Table 33. Henan Jindan Lactic Acid Technology Co.,Ltd Bio-based Lactic Acid Product and Services

Table 34. Henan Jindan Lactic Acid Technology Co.,Ltd Bio-based Lactic Acid Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Henan Jindan Lactic Acid Technology Co.,Ltd Recent Developments/Updates

Table 36. Global Bio-based Lactic Acid Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 37. Global Bio-based Lactic Acid Revenue by Manufacturer (2021-2026) & (USD Million)

Table 38. Global Bio-based Lactic Acid Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 39. Market Position of Manufacturers in Bio-based Lactic Acid, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 40. Head Office and Bio-based Lactic Acid Production Site of Key Manufacturer

Table 41. Bio-based Lactic Acid Market: Company Product Type Footprint

Table 42. Bio-based Lactic Acid Market: Company Product Application Footprint

Table 43. Bio-based Lactic Acid New Market Entrants and Barriers to Market Entry

Table 44. Bio-based Lactic Acid Mergers, Acquisition, Agreements, and Collaborations

Table 45. Global Bio-based Lactic Acid Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 46. Global Bio-based Lactic Acid Sales Quantity by Region (2021-2026) & (Tons)

Table 47. Global Bio-based Lactic Acid Sales Quantity by Region (2027-2032) & (Tons)

Table 48. Global Bio-based Lactic Acid Consumption Value by Region (2021-2026) & (USD Million)

Table 49. Global Bio-based Lactic Acid Consumption Value by Region (2027-2032) & (USD Million)

Table 50. Global Bio-based Lactic Acid Average Price by Region (2021-2026) & (US\$/Ton)

Table 51. Global Bio-based Lactic Acid Average Price by Region (2027-2032) & (US\$/Ton)

Table 52. Global Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 53. Global Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 54. Global Bio-based Lactic Acid Consumption Value by Type (2021-2026) & (USD Million)

Table 55. Global Bio-based Lactic Acid Consumption Value by Type (2027-2032) & (USD Million)

Table 56. Global Bio-based Lactic Acid Average Price by Type (2021-2026) & (US\$/Ton)

Table 57. Global Bio-based Lactic Acid Average Price by Type (2027-2032) & (US\$/Ton)

Table 58. Global Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 59. Global Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 60. Global Bio-based Lactic Acid Consumption Value by Application (2021-2026) & (USD Million)

Table 61. Global Bio-based Lactic Acid Consumption Value by Application (2027-2032) & (USD Million)

Table 62. Global Bio-based Lactic Acid Average Price by Application (2021-2026) & (US\$/Ton)

Table 63. Global Bio-based Lactic Acid Average Price by Application (2027-2032) & (US\$/Ton)

Table 64. North America Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 65. North America Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 66. North America Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 67. North America Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 68. North America Bio-based Lactic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 69. North America Bio-based Lactic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 70. North America Bio-based Lactic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 71. North America Bio-based Lactic Acid Consumption Value by Country

(2027-2032) & (USD Million)

Table 72. Europe Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 73. Europe Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 74. Europe Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 75. Europe Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 76. Europe Bio-based Lactic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 77. Europe Bio-based Lactic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 78. Europe Bio-based Lactic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 79. Europe Bio-based Lactic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 80. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 81. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 82. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 83. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 84. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Region (2021-2026) & (Tons)

Table 85. Asia-Pacific Bio-based Lactic Acid Sales Quantity by Region (2027-2032) & (Tons)

Table 86. Asia-Pacific Bio-based Lactic Acid Consumption Value by Region (2021-2026) & (USD Million)

Table 87. Asia-Pacific Bio-based Lactic Acid Consumption Value by Region (2027-2032) & (USD Million)

Table 88. South America Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 89. South America Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 90. South America Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 91. South America Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 92. South America Bio-based Lactic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 93. South America Bio-based Lactic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 94. South America Bio-based Lactic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 95. South America Bio-based Lactic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 96. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 97. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 98. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 99. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 100. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 101. Middle East & Africa Bio-based Lactic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 102. Middle East & Africa Bio-based Lactic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 103. Middle East & Africa Bio-based Lactic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 104. Bio-based Lactic Acid Raw Material

Table 105. Key Manufacturers of Bio-based Lactic Acid Raw Materials

Table 106. Bio-based Lactic Acid Typical Distributors

Table 107. Bio-based Lactic Acid Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Bio-based Lactic Acid Picture

Figure 2. Global Bio-based Lactic Acid Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Bio-based Lactic Acid Revenue Market Share by Type in 2025

Figure 4. L-lactic Acid Examples

Figure 5. D-lactic Acid Examples

Figure 6. Global Bio-based Lactic Acid Revenue by Renewable Raw Material Source, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Bio-based Lactic Acid Revenue Market Share by Renewable Raw Material Source in 2025

Figure 8. Starch-based Lactic Acid Examples

Figure 9. Sucrose-based Lactic Acid Examples

Figure 10. Molasses-based Lactic Acid Examples

Figure 11. Lignocellulose-based Lactic Acid Examples

Figure 12. Others Examples

Figure 13. Global Bio-based Lactic Acid Revenue by Production Technology Route, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Bio-based Lactic Acid Revenue Market Share by Production Technology Route in 2025

Figure 15. Homofermentative Lactic Acid Fermentation Examples

Figure 16. Heterofermentative Lactic Acid Fermentation Examples

Figure 17. Lactic Acid Bacteria Fermentation Examples

Figure 18. Bacillus Fermentation Examples

Figure 19. Others Examples

Figure 20. Global Bio-based Lactic Acid Revenue by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 21. Global Bio-based Lactic Acid Revenue Market Share by Physical Form in 2025

Figure 22. Lactic Acid Solution Examples

Figure 23. Anhydrous Lactic Acid Examples

Figure 24. Lactic Acid Powder Examples

Figure 25. Global Bio-based Lactic Acid Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 26. Global Bio-based Lactic Acid Revenue Market Share by Application in 2025

Figure 27. Food Preservation Examples

Figure 28. Pharmaceutical Examples

Figure 29. Cosmetics Examples

Figure 30. Others Examples

Figure 31. Global Bio-based Lactic Acid Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 32. Global Bio-based Lactic Acid Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 33. Global Bio-based Lactic Acid Sales Quantity (2021-2032) & (Tons)

Figure 34. Global Bio-based Lactic Acid Price (2021-2032) & (US\$/Ton)

Figure 35. Global Bio-based Lactic Acid Sales Quantity Market Share by Manufacturer in 2025

Figure 36. Global Bio-based Lactic Acid Revenue Market Share by Manufacturer in 2025

Figure 37. Producer Shipments of Bio-based Lactic Acid by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Bio-based Lactic Acid Manufacturer (Revenue) Market Share in 2025

Figure 39. Top 6 Bio-based Lactic Acid Manufacturer (Revenue) Market Share in 2025

Figure 40. Global Bio-based Lactic Acid Sales Quantity Market Share by Region (2021-2032)

Figure 41. Global Bio-based Lactic Acid Consumption Value Market Share by Region (2021-2032)

Figure 42. North America Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 44. Asia-Pacific Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 45. South America Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 46. Middle East & Africa Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 47. Global Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 48. Global Bio-based Lactic Acid Consumption Value Market Share by Type (2021-2032)

Figure 49. Global Bio-based Lactic Acid Average Price by Type (2021-2032) & (US\$/Ton)

Figure 50. Global Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Bio-based Lactic Acid Revenue Market Share by Application (2021-2032)

Figure 52. Global Bio-based Lactic Acid Average Price by Application (2021-2032) & (US\$/Ton)

Figure 53. North America Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 54. North America Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Bio-based Lactic Acid Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Bio-based Lactic Acid Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 61. Europe Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Bio-based Lactic Acid Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Bio-based Lactic Acid Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 65. France Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 69. Asia-Pacific Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 70. Asia-Pacific Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Bio-based Lactic Acid Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Bio-based Lactic Acid Consumption Value Market Share by Region (2021-2032)

Figure 73. China Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 76. India Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 80. South America Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Bio-based Lactic Acid Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Bio-based Lactic Acid Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Bio-based Lactic Acid Sales Quantity Market Share by Type (2021-2032)

Figure 86. Middle East & Africa Bio-based Lactic Acid Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Bio-based Lactic Acid Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Bio-based Lactic Acid Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 90. Egypt Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 92. South Africa Bio-based Lactic Acid Consumption Value (2021-2032) & (USD Million)

Figure 93. Bio-based Lactic Acid Market Drivers

Figure 94. Bio-based Lactic Acid Market Restraints

Figure 95. Bio-based Lactic Acid Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Bio-based Lactic Acid in 2025

Figure 98. Manufacturing Process Analysis of Bio-based Lactic Acid

Figure 99. Bio-based Lactic Acid Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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