

Global Bio-based Lactide 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 Lactide market size was valued at US\$ 59.27 million in 2025 and is forecast to a readjusted size of US\$ 93.58 million by 2032 with a CAGR of 6.7% during review period.

In 2025, global production of bio-based lactide was approximately 18,000 tonnes, with a global average market price of around \$3,200 per tonne. Total global production capacity for bio-based lactide reached 25,000 tonnes that year. The industry's average gross profit margin stood at 25%. Bio-based lactide is a cyclic diester monomer produced from renewable biomass resources through processes such as lactic acid fermentation, purification, and cyclization-dehydration; it serves as a key intermediate raw material for the production of polylactic acid (PLA). Lactide is formed by the condensation of two lactic acid molecules. Depending on the chirality of the lactic acid molecules, it can be classified into types such as L-lactide, D-lactide, meso-lactide, and racemic lactide (DL-lactide), with L-lactide being the most widely used variety in industrial applications. Compared to monomers for traditional petroleum-based polymers, bio-based lactide is derived from renewable carbon sources—such as corn, sugarcane, and cassava—and is characterized by low carbon emissions, biodegradability, and recyclability, making it a crucial foundational monomer in the bio-based materials industry chain. Bio-based lactide is primarily used to produce PLA resin, which is subsequently applied in fields such as biodegradable packaging materials, food containers, textile fibers, 3D printing materials, medical implants, and disposable consumer goods. Driven by stricter global policies on plastic pollution control, the advancement of carbon neutrality goals, and the growing demand for sustainable materials, bio-based lactide is increasingly becoming a vital green alternative to traditional petrochemical-based polymers.

The upstream segment of the bio-based lactide industry chain primarily encompasses renewable sugar sources, bio-fermentation technology, and the production and purification of lactic acid. Key raw materials include carbohydrate-rich biomass resources such as corn starch, sugarcane molasses, cassava starch, and wheat starch; these are converted into glucose through enzymatic hydrolysis and saccharification, followed by fermentation using lactic acid bacteria or other microorganisms to produce lactic acid. Since the polymerization performance of lactide depends heavily on the chemical and optical purity of the lactic acid, upstream processing requires steps such as decolorization, impurity removal, concentration, and purification to obtain high-purity L-lactic acid or D-lactic acid. Factors such as high-purity lactic acid production technology, strain selection, fermentation efficiency, and energy consumption directly influence the quality and cost of the bio-based lactide product. Major global producers are currently strengthening their biomass feedstock supply chains and alleviating upstream pressure by enhancing fermentation efficiency, developing non-food-crop feedstocks, and optimizing carbon footprint management. The midstream segment of the industry chain encompasses lactic acid dehydration and cyclization, lactide purification, isomer control, and the production of polymerization-grade monomers. Lactic acid first undergoes prepolymerization to form oligomers, followed by depolymerization and cyclization to yield crude lactide; subsequent processes such as distillation, crystallization, and recrystallization are employed to remove impurities and enhance purity. Given that the performance of polylactic acid (PLA) is heavily dependent on lactide purity and optical composition, midstream technological efforts focus on the production of high-purity L-lactide and D-lactide, as well as the control of isomer ratios. High-quality lactide generally requires polymerization-grade purity to ensure the resulting PLA resin exhibits optimal molecular weight, transparency, mechanical properties, and thermal stability. Industry competition has shifted from mere capacity expansion to improving product purity, reducing energy consumption, and developing high-performance PLA material systems. Downstream applications for bio-based lactide primarily involve PLA production, extending into sectors such as packaging, consumer goods, agriculture, healthcare, and industrial materials. Thanks to its bio-based origin, biodegradability, transparency, and excellent processability, PLA is widely used in food packaging containers, beverage cups, films, foodservice ware, textile fibers, and 3D printing filaments. In the medical sector, high-purity PLA materials are utilized in high-value-added applications such as absorbable sutures, bone fixation devices, and sustained-release drug delivery carriers. Demand for bio-based lactide and PLA continues to rise, driven by global restrictions on single-use plastics, the implementation of green packaging regulations, and growing consumer environmental awareness. Simultaneously, downstream markets are evolving toward high-

performance solutions, with the continuous introduction of new products such as heat-resistant PLA, high-toughness PLA, barrier-grade PLA, and PLA composites. Looking ahead, bio-based lactide will serve not only as a conventional feedstock for PLA but also as a crucial foundational platform for building bio-based polymer systems and low-carbon material supply chains.

Global policies addressing plastic pollution and promoting low-carbon development are the core drivers of growth in the bio-based lactide market. As a key monomer for producing polylactic acid (PLA), bio-based lactide's primary value lies in its ability to replace traditional petrochemical-based polymer feedstocks with renewable biomass resources, thereby reducing the material's lifecycle carbon emissions. In recent years, regions such as Europe, North America, China, and Japan have consistently advanced policies restricting single-use plastics, regulations on green packaging, and carbon neutrality strategies, accelerating the adoption of biodegradable materials in sectors like food packaging, foodservice ware, and consumer goods. Driven by PLA's attributes—including its bio-based origin, industrial compostability, high transparency, and excellent processing performance—demand for high-purity bio-based lactide continues to rise. Looking ahead, as global environmental regulations tighten and corporate ESG goals intensify, bio-based lactide is poised to become a crucial foundational raw material in the supply chain for alternatives to traditional plastics.

Bio-based lactide is primarily used to produce PLA resin, a material widely utilized in applications such as biodegradable packaging films, food containers, beverage cups, 3D printing materials, textile fibers, and medical implants. As PLA performance continues to improve, its scope of application is expanding from traditional single-use consumer goods into high-value-added sectors, encompassing heat-resistant PLA, high-toughness PLA, PLA composites, and medical-grade PLA. Demand for lactide with high purity and superior optical properties is particularly strong in fields such as food-safe packaging, consumables for smart manufacturing, and biomedical materials. Future capacity expansions across the PLA supply chain will directly drive growth in lactide demand, propelling the industry's evolution from basic biodegradable materials toward high-performance bio-based materials.

Report Scope

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

Global Bio-based Lactide 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 Lactide 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 Lactide 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 Lactide

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 Lactide 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, NatureWorks, Zhejiang Hisun Biomaterials Co.Ltd., Cofco Biotechnology Co.,Ltd., 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 Lactide 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

D-Lactide

L-Lactide

meso-Lactide

DL-Lactide

Market segment by Feedstock Source

Food-based Bio-Lactide

Non-food Bio-Lactide

Waste-derived Lactide

Market segment by Purity Grade

Industrial Grade

Medical Grade

Electronic Grade

Market segment by Production Process Route

Direct Cyclization Route

Oligomer Depolymerization Route

Continuous Production Route

Market segment by Application

Polylactic Acid Production

Pharmaceutical

Others

Major players covered

Corbion

NatureWorks

Zhejiang Hisun Biomaterials Co.ltd.

Cofco Biotechnology Co.,Ltd.

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 Lactide product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Bio-based Lactide 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 Lactide 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 Lactide.

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

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