

Global Bio-based Lactide Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G103BA32F828EN.html>

Date: September 2026

Pages: 81

Price: US\$ 4,480.00 (Single User License)

ID: G103BA32F828EN

Abstracts

The global Bio-based Lactide market size is expected to reach \$ 93.58 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

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 studies the global Bio-based Lactide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-based Lactide and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio-based Lactide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-based Lactide total production and demand, 2021-2032, (Tons)

Global Bio-based Lactide total production value, 2021-2032, (USD Million)

Global Bio-based Lactide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Bio-based Lactide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Bio-based Lactide domestic production, consumption, key domestic manufacturers and share

Global Bio-based Lactide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Bio-based Lactide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Bio-based Lactide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Bio-based Lactide market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio-based Lactide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bio-based Lactide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Bio-based Lactide Market, Segmentation by Type:

D-Lactide

L-Lactide

meso-Lactide

DL-Lactide

Global Bio-based Lactide Market, Segmentation by Feedstock Source:

Food-based Bio-Lactide

Non-food Bio-Lactide

Waste-derived Lactide

Global Bio-based Lactide Market, Segmentation by Purity Grade:

Industrial Grade

Medical Grade

Electronic Grade

Global Bio-based Lactide Market, Segmentation by Production Process Route:

Direct Cyclization Route

Oligomer Depolymerization Route

Continuous Production Route

Global Bio-based Lactide Market, Segmentation by Application:

Poly(lactic Acid) Production

Pharmaceutical

Others

Companies Profiled:

Corbion

NatureWorks

Zhejiang Hisun Biomaterials Co.ltd.

Cofco Biotechnology Co.,Ltd.

Henan Jindan Lactic Acid Technology Co.,Ltd

Key Questions Answered

1. How big is the global Bio-based Lactide market?
2. What is the demand of the global Bio-based Lactide market?
3. What is the year over year growth of the global Bio-based Lactide market?
4. What is the total value of the global Bio-based Lactide market?
5. Who are the Major Players in the global Bio-based Lactide market?
6. What are the growth factors driving the market demand?

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