

Global GA Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GA market size is expected to reach \$ 1909 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Global gibberellin (GA) sales reached 56,990 kilotons in 2025, with an average price of US\$21,533 per tonne.

Gibberellic acid is plant hormones that regulate growth and influence various developmental processes, including stem elongation, germination, dormancy, flowering, sex expression, enzyme induction, and leaf and fruit senescence. Common commercially available gibberellin acid contain over powder and solution. It is widely used in agriculture.

The supply of raw materials for gibberellin is significantly dependent on agricultural byproducts and is technology-intensive. Approximately 92% of global production is achieved through microbial fermentation, with primary raw materials including corn starch (glucose), soybean protein powder, and other agricultural byproducts. Carbon and nitrogen sources account for 35-45% of the total cost. It is worth noting that in recent years, the use of fully synthetic culture medium technology (replacing soybean protein powder with ammonium sulfate, urea, and citric acid) has reduced the cost of culture medium by 26.42% (from 6.507 yuan/batch to 4.788 yuan/batch), while increasing GA3 yield by 8.9% and GA1 yield by 55.7%. Energy costs account for 20-25%, and the fermentation process requires strict control of temperature (28-32?), pH (5-7), and dissolved oxygen, resulting in high energy consumption. Although solid-state fermentation (SSF) yields 1.6 times higher than liquid-state fermentation, downstream processing and wastewater treatment costs are higher. Processing and manufacturing costs account for approximately 25-30%, including strain cultivation, fermentation control (4-6 day cycle), extraction and purification (solvent extraction,

crystallization, drying), etc. Among these, GA3 purification requires multiple steps, and the separation technology for the GA4+7 mixture is even more demanding. Quality control and environmental protection costs account for 10-15% of total costs. HPLC is required to ensure the content of active ingredients (GA3 ? 90%) and detect residual solvents, while also treating high-concentration organic wastewater. The EU will classify gibberellic acid as a low-risk active substance by 2025, but two new restrictions on related impurities have been added, further increasing quality control costs. Overall, gibberellic acid is a mid-priced plant growth regulator with high technological barriers and continuously improving fermentation efficiency. Its cost structure is affected by multiple factors, including fluctuations in agricultural and sideline product prices, energy costs, optimization of fermentation processes (such as the construction of genetically engineered strains), and international regulations and standards. The industry is transitioning from chemical synthesis to bio-fermentation and expanding towards high-value-added varieties (GA4, GA7).

This report studies the global GA production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GA 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 GA that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GA total production and demand, 2021-2032, (Tons)

Global GA total production value, 2021-2032, (USD Million)

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

Global GA consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: GA domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global GA 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 Nufarm, Caisson Laboratories, Zhejiang Qianjiang Biochemical, Shanghai Tongrui Biotech, Jiangxi Xinruifeng Biochemical, Sichuan Longmang Fusheng Biotech, Jiangsu Fengyuan Bioengineering, Jiangsu Bailing Agrochemical, 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 GA 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 GA Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GA Market, Segmentation by Type:

Concentration 90%

Concentration 85%

Other

Global GA Market, Segmentation by Process:

Microbial Fermentation

Chemical Synthesis

Plant Extraction

Global GA Market, Segmentation by Product Form:

Crystal Powder

Soluble Powder

Soluble Granules

Emulsifiable Oil

Aqueous Solution

Global GA Market, Segmentation by Application:

Cereals and Grains

Fruits

Vegetables

Others

Companies Profiled:

Nufarm

Caisson Laboratories

Zhejiang Qianjiang Biochemical

Shanghai Tongrui Biotech

Jiangxi Xinruifeng Biochemical

Sichuan Longmang Fusheng Biotech

Jiangsu Fengyuan Bioengineering

Jiangsu Bailing Agrochemical

Key Questions Answered:

1. How big is the global GA market?
2. What is the demand of the global GA market?
3. What is the year over year growth of the global GA market?
4. What is the production and production value of the global GA market?
5. Who are the key producers in the global GA market?
6. What are the growth factors driving the market demand?

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