

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

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Abstracts

The global Tyrosinase market size is expected to reach \$ 18.54 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Tyrosinase is a copper-containing oxidase widely considered the rate-limiting enzyme controlling melanin production. In the classic Raper-Mason pathway, it catalyzes the hydroxylation of tyrosine and the oxidation of dopa (DOPA) to form ortho-quinones, which then polymerize into melanin. This enzyme is also a key polyphenol oxidase in the enzymatic browning process of fruits and vegetables and is found in animals, plants, and various microorganisms.

In 2024, global Tyrosinase sales reached approximately 58 K Dose, with an average global market price of around 188.9 US\$/Dose. Production capacity reached 70 K Dose, with a gross profit margin of approximately 40%.

Global Tyrosinase key players include Merck KGaA, Leica Biosystems, RayBiotech, BIO SB and Sinopharm Chemical Reagent, etc. Global top five manufacturers hold a share above 40%.

The largest market is Americas, has a share above 45%, followed by Asia Pacific and Europe, with around 20% and 30% market share respectively.

In terms of product, Fungus Extraction is the largest segment, with a share above 80%. And in terms of application, the largest application is Pharmaceuticals, accounting for about 75% of the market, followed by Cosmetics, etc.

Research in academia and pharmaceuticals on melanin production pathways, disease

mechanisms such as melanoma and albinism continues to expand. Tyrosinase is considered a key target for melanin production and enzymatic browning, driving reliance on stable, highly active enzyme sources and standardized assay protocols in basic research and drug discovery. In cosmetics and dermatological applications, regulatory agencies and academia are increasingly concerned about the health risks of traditional skin-whitening ingredients. For example, Europe and parts of Asia have banned or strictly restricted the use of skin-whitening cosmetics containing hydroquinone. This has prompted the industry to shift towards safer, novel tyrosinase inhibitors, and the screening of these candidate molecules heavily relies on in vitro tyrosinase activity and inhibition assay platforms. Stricter regulations on in vitro diagnostic quality control, cosmetic safety evaluation, and food additive risk assessment have made standardized enzymological tools and validated antibody products crucial components of the compliant development process.

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

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

Highlights and key features of the study

Global Tyrosinase total production and demand, 2021-2032, (K Dose)

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

Global Tyrosinase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Dose), (based on production site)

Global Tyrosinase consumption by region & country, CAGR, 2021-2032 & (K Dose)

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

Global Tyrosinase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Dose)

Global Tyrosinase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Dose)

Global Tyrosinase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Dose)

This report profiles key players in the global Tyrosinase 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 Merck KGaA, Leica Biosystems, Glentham Life Sciences, Innovative Research, RayBiotech, Enzo Biochem, BIO SB, Beijing Baiolaibo, Beijing Solarbio Science & Technology, Aladdin, 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 Tyrosinase market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Dose) and average price (US\$/Dose) 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 Tyrosinase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tyrosinase Market, Segmentation by Type:

Fungus Extraction

Bacterial Extraction

Others

Global Tyrosinase Market, Segmentation by Physical Properties:

Powder

Solution

Global Tyrosinase Market, Segmentation by Dose:

25KU

100KU

Others

Global Tyrosinase Market, Segmentation by Application:

Cosmetics

Pharmaceuticals

Others

Companies Profiled:

Merck KGaA

Leica Biosystems

Glentham Life Sciences

Innovative Research

RayBiotech

Enzo Biochem

BIO SB

Beijing Baiaolaibo

Beijing Solarbio Science & Technology

Aladdin

Shanghai Maokang Biological

Sinopharm Chemical Reagent

Key Questions Answered:

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

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