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

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Abstracts

The global Luciferase market size is expected to reach $ 1633 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).
Global sales volume of luciferase reached 1,185 thousand units in 2025, with an average price of $86.35 per unit.

Luciferase is a general term for a class of enzymes found in living organisms that catalyze the oxidation of luciferin or fatty aldehydes to produce light. Luciferases are widely distributed among bioluminescent organisms in nature, such as fireflies and luminous bacteria. Based on differences in origin and structure, luciferases can be categorized into three main types: firefly luciferase, bacterial luciferase, and marine organism luciferase.

Its core function involves catalyzing a chemical reaction between the substrate (luciferin) and oxygen, converting chemical energy into light energy to produce bioluminescence that is visible to the naked eye or detectable by instruments. The light-emitting process requires no external excitation source; light is produced autonomously through the enzymatic reaction. Characterized by high specificity and sensitivity, luciferase serves as a highly valuable tool molecule in life science research.

Luciferase is not a bulk industrial enzyme; it is primarily marketed in forms such as recombinant luciferase, luciferase assay kits, dual-luciferase reporter gene systems, and ATP/cell viability bioluminescence assay reagents.

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

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

Highlights and key features of the study
Global Luciferase total production and demand, 2021-2032, (K Units)
Global Luciferase total production value, 2021-2032, (USD Million)
Global Luciferase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Luciferase consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Luciferase domestic production, consumption, key domestic manufacturers and share
Global Luciferase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Luciferase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Luciferase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Luciferase 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 Promega, Thermo Fisher Scientific, Merck KGaA, Revvity, Takara Bio, New England Biolabs, Biotium, BPS Bioscience, Abcam, OriGene Technologies, 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 Luciferase market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

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year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Luciferase Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Luciferase Market, Segmentation by Type:

- Luciferase Assay Kits
- Recombinant Luciferase
- Reporter Gene Vectors/Cell Lines
- Others

Global Luciferase Market, Segmentation by Enzyme Type:

- Firefly Luciferase
- Bacterial Luciferase

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Marine Luciferase

Others

Global Luciferase Market, Segmentation by Assay System:

Single-Luciferase Assay

Dual-Luciferase Assay

Others

Global Luciferase Market, Segmentation by Application:

Hospitals & Clinics

Research Institutes

Pharmaceutical Companies

Testing Laboratories

Others

Companies Profiled:

Promega

Thermo Fisher Scientific

Merck KGaA

Revvity

Takara Bio

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New England Biolabs

Biotium

BPS Bioscience

Abcam

OriGene Technologies

Gold Biotechnology

Bio-Techne

Cell Signaling Technology

Creative Diagnostics

Vazyme

Yeasen Biotechnology

Beyotime Biotechnology

TransGen Biotech

Genomeditech

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

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