

Global Loop-mediated Isothermal Amplification (LAMP) Kit Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Loop-mediated Isothermal Amplification (LAMP) Kit market size is expected to reach \$ 51.01 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

A Loop-mediated Isothermal Amplification (LAMP) kit is a nucleic-acid amplification reagent system designed to deliver rapid DNA/RNA detection under a constant temperature. A typical kit includes a LAMP primer set, a strand-displacing polymerase, buffers, dNTPs, ions/cofactors, and a readout module such as fluorescence, colorimetry, turbidity, or lateral-flow strips. Unlike conventional PCR that relies on thermal cycling, LAMP achieves high-efficiency amplification at a single temperature through primer architecture and enzyme-driven strand displacement, enabling faster turnaround and lower instrument dependence. It is widely used in infectious disease screening, food and environmental testing, animal health surveillance, and decentralized or emergency testing. High-performing LAMP kits differentiate on primer robustness, inhibitor tolerance, false-positive control, and consistent result interpretation. In 2025, global Loop-mediated Isothermal Amplification (LAMP) kit production reached approximately 7.99 million unit and price is about 2.5 USD/Unit. The average gross profit margin of this product is 30%.

Molecular testing is expanding beyond central laboratories into decentralized, field, and mobile settings, accelerating demand for amplification methods that are fast, portable, and less instrument-intensive. Because LAMP can run on simple isothermal devices, it naturally fits resource-limited environments, on-site screening, and emergency monitoring. In parallel, routine public-health surveillance, animal disease control in agriculture, and continuous food/water safety monitoring are increasing the frequency and breadth of nucleic-acid testing. Providers that can deliver a more complete 'sample-to-answer' experience and user-friendly readouts are positioned to gain faster adoption

and repeat purchasing. LAMP performance is highly sensitive to primer design and reaction balance; non-specific amplification and aerosol contamination can drive false positives if closed-tube workflows, contamination controls, and strict QC are not built in. Complex sample matrices (e.g., sputum, stool, food extracts) introduce inhibitors that require stronger enzyme and buffer robustness. Meanwhile, IVD regulatory expectations around clinical performance validation, lot-to-lot consistency, stability, and traceable documentation continue to rise, making it difficult for reagent-only offerings to remain competitive without sustained investment in system engineering and compliance capabilities. Downstream users increasingly prefer low-step, low-skill, closed-loop formats: fewer pipetting steps, higher inhibitor tolerance, clearer positive/negative interpretation, and shorter time-to-result ideally paired with portable heaters, smartphone-enabled readers, or lateral-flow strips. Use cases are also diversifying: primary-care screening emphasizes speed and simplicity, surveillance programs emphasize standardization and throughput, while food/environment testing emphasizes robustness and low false positives. As a result, kits are trending toward pre-mixed and lyophilized formats, ambient shipping, stronger stability, and tighter integration with upstream sample processing. Upstream value concentrates on key enzymes, primers, and stabilization materials. Strand-displacing polymerases (and related enzyme preparations) define amplification efficiency and inhibitor tolerance; high-quality oligo primers drive specificity and lot consistency; buffer salts, Mg²⁺ systems, dNTPs, and readout chemistries (fluorescent dyes, color indicators, or lateral-flow materials) shape sensitivity and stability. To support decentralized use, lyoprotectants, closed-tube consumables, and anti-contamination accessories are increasingly important. Supply-chain competitiveness depends on stable sourcing and consistent quality of enzymes and critical chemicals, plus the ability to maintain long-term stability and compliant documentation at scale.

This report studies the global Loop-mediated Isothermal Amplification (LAMP) Kit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Loop-mediated Isothermal Amplification (LAMP) Kit 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 Loop-mediated Isothermal Amplification (LAMP) Kit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Loop-mediated Isothermal Amplification (LAMP) Kit total production and demand, 2021-2032, (K Units)

Global Loop-mediated Isothermal Amplification (LAMP) Kit total production value, 2021-2032, (USD Million)

Global Loop-mediated Isothermal Amplification (LAMP) Kit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Loop-mediated Isothermal Amplification (LAMP) Kit consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Loop-mediated Isothermal Amplification (LAMP) Kit domestic production, consumption, key domestic manufacturers and share

Global Loop-mediated Isothermal Amplification (LAMP) Kit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Loop-mediated Isothermal Amplification (LAMP) Kit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Loop-mediated Isothermal Amplification (LAMP) Kit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Loop-mediated Isothermal Amplification (LAMP) Kit 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 Eiken Chemical, Thermo Fisher Scientific, Nippon Gene, New England Biolabs, OptiGene, Lucigen, MeG Biotech, BioLabs, Mast Group, BioCat, 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 Loop-mediated Isothermal Amplification (LAMP) Kit 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 year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Loop-mediated Isothermal Amplification (LAMP) Kit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Loop-mediated Isothermal Amplification (LAMP) Kit Market, Segmentation by Type:

DNA Kit

RNA Kit

Global Loop-mediated Isothermal Amplification (LAMP) Kit Market, Segmentation by Readout:

Fluorescent

Colorimetric

Turbidity

Global Loop-mediated Isothermal Amplification (LAMP) Kit Market, Segmentation by Sample Prep:

Extraction Required

Extraction-free

Rapid Lysis

Global Loop-mediated Isothermal Amplification (LAMP) Kit Market, Segmentation by Application:

Medical Diagnostic

Agriculture

Scientific Research

Companies Profiled:

Eiken Chemical

Thermo Fisher Scientific

Nippon Gene

New England Biolabs

OptiGene

Lucigen

MeG Biotech

BioLabs

Mast Group

BioCat

SYSMEX

Key Questions Answered:

1. How big is the global Loop-mediated Isothermal Amplification (LAMP) Kit market?
2. What is the demand of the global Loop-mediated Isothermal Amplification (LAMP) Kit market?
3. What is the year over year growth of the global Loop-mediated Isothermal Amplification (LAMP) Kit market?
4. What is the production and production value of the global Loop-mediated Isothermal

Amplification (LAMP) Kit market?

5. Who are the key producers in the global Loop-mediated Isothermal Amplification (LAMP) Kit market?

6. What are the growth factors driving the market demand?

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