

Ligase Enzyme Market Set for Rapid Expansion, Projected to Reach \$4.92 Billion by 2028

The Business Research Company's Ligases Enzyme Global Market Report 2024 – Market Size, Trends, And Global Forecast 2024-2033

LONDON, GREATER LONDON, UK, July 4, 2024 /EINPresswire.com/ -- The ligase enzymes market has experienced robust growth in recent years, driven by their pivotal role in

DNA replication and repair processes essential for biotechnology and pharmaceutical applications. Starting from \$2.89 billion in 2023, the market is expected to grow to \$3.21 billion in 2024 at a compound annual growth rate (CAGR) of 11.3%. This growth can be attributed to the expanding biotechnology sector, advancements in genetic engineering, and increased demand for molecular diagnostics.



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Drivers of Market Growth

The forecasted growth of the ligase enzymes market to \$4.92 billion by 2028, with a CAGR of 11.2%, is driven by several factors. Expansion in personalized medicine applications, advancements in synthetic biology, and the integration of ligase enzymes in drug development

processes are significant contributors. Additionally, the rising adoption of ligase enzymes in next-generation sequencing and molecular diagnostics further propels market expansion.

Explore comprehensive insights into the ligase enzymes market with a detailed sample report: https://www.thebusinessresearchcompany.com/sample_request?id=12226&type=smp

Major Players and Strategic Moves

Leading companies in the ligase enzymes market include BASF SE, F. Hoffmann-La Roche AG, Thermo Fisher Scientific Inc., Merck KGaA, and others. These companies focus on strategic partnerships and product innovations to maintain their competitive edge. For instance, Lonza



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Group's collaboration with Singzyme to develop an enzymatic conjugation platform exemplifies strategic partnerships aimed at advancing bioconjugation technologies for precision medicine applications.

Emerging Trends

Key trends in the ligase enzymes market include the development of engineered ligases tailored for specific applications and their integration in CRISPR-based technologies. Customization of ligase-based assays for research and diagnostics, along with the rise of ligase-based isothermal amplification methods, are also shaping market dynamics.

Market Segments

The ligases enzyme market covered in this report is segmented –

- 1) By Type: E. coli DNA ligase, T4 DNA Ligase, Mammalian Ligases, Thermostable Ligases
- 2) By Source: Microorganisms, Animal, Plant
- 3) By Application: Ligase Chain Reaction (LCR), Ligase Detection Reaction (LDR), Next-Generation Sequencing (NGS), Repeat Expansion Detection (RED), Rolling Circle Amplification (RCA), Proximity Ligation Assay (PLA), Molecular Cloning, Ligation Mediated PCR, Mutation Detection
- 4) By End-User: Research Laboratories And Institutions, Pharmaceutical And Biopharmaceutical Companies, Diagnostic Laboratories

Regional Insights

North America dominated the ligase enzymes market in 2023, driven by substantial investments in biotechnology and healthcare research. However, Asia-Pacific is expected to witness the fastest growth during the forecast period, supported by increasing research activities and adoption of advanced biotechnological techniques in countries like China and India.

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[Ligases Enzyme Global Market Report](#) 2024 from TBRC covers the following information:

- Market size data for the forecast period: Historical and Future
- Market analysis by region: Asia-Pacific, China, Western Europe, Eastern Europe, North America, USA, South America, Middle East and Africa.
- Market analysis by countries: Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA.

Trends, opportunities, strategies and so much more.

The Ligases Enzyme Global Market Report 2024 by The Business Research Company is the most comprehensive report that provides insights on ligases enzyme market size, [ligases enzyme market drivers and trends](#), ligases enzyme market major players, competitors' revenues, market positioning, and market growth across geographies. The ligases enzyme market report helps you gain in-depth insights on opportunities and strategies. Companies can leverage the data in the report and tap into segments with the highest growth potential.

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The Business Research Company has published over 27 industries, spanning over 8000+ markets and 60+ geographies. The reports draw on 1,500,000 datasets, extensive secondary research, and exclusive insights from interviews with industry leaders.

Global Market Model – Market Intelligence Database

The Global Market Model, The Business Research Company's flagship product, is a market intelligence platform covering various macroeconomic indicators and metrics across 60 geographies and 27 industries. The Global Market Model covers multi-layered datasets that help its users assess supply-demand gaps.

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