

Global Biological Reagents Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Biological Reagents market size is predicted to grow from US\$ 29747 million in 2025 to US\$ 42481 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

As essential consumables in life science research, biological reagents are of various types and huge in number. They play a vital role in various scientific research activities. According to their material composition and application fields, biological reagents can be finely divided into three categories: molecular reagents, protein reagents and cell reagents.

Molecular reagents are mainly used for nucleic acid and small molecule related experiments, covering customized DNA and RNA fragments, molecular cloning and reverse transcriptase, as well as nucleic acid, exosome extraction and purification, product recovery, staining modification, etc. required single reagents or kits.

Protein reagents are aimed at protein macromolecule experiments, including recombinant proteins, antibodies, protein chips, and reagents or kits specifically used for protein modification, purification and electrophoresis.

Cell reagents serve in vitro cell experiments, mainly including products with cells as the main body, such as conventional model biological cells, various stem cells, etc., as well as single reagents or kits required for cell culture, transfection, apoptosis, lysis, etc., such as culture medium, transfection reagents, cytokines, etc.

Biological reagents occupy the midstream position across the full industrial chain, with the upstream consisting of biological and chemical raw materials, manufacturing

equipment, as well as packaging materials and lab consumables. Downstream end users cover industrial and research sectors, which can be further categorized into fundamental research institutes, in vitro diagnostics (IVD), high-throughput sequencing and biopharmaceuticals. At present, fundamental research represents the largest consumption field for biological reagents, accounting for approximately 48% of the global market share.

From a product segmentation perspective, protein-based reagents will emerge as the primary contributor to market value growth within China's biological reagent industry. This product portfolio centers on recombinant proteins, antibodies, antigens, cytokines, growth factors, diagnostic antibodies/antigens and immunoassay-related reagents. Core technical barriers lie in expression system development, protein folding and modification, purification yield control, biological activity retention, target specificity, batch-to-batch consistency and standardized quality documentation. Unlike conventional lab consumable reagents for general research use, protein-based reagents are deeply embedded in drug development, target validation, upstream raw material supply for IVD production, bioactivity evaluation and quality control workflows. Such embedded application delivers robust demand resilience and facilitates high customer stickiness. Projected data indicates protein-based reagents will capture 55.43% of China's total biological reagent market by 2032, making them the core driver of domestic market structural upgrading and corporate profitability improvement.

On a global scale, Thermo Fisher Scientific and Merck KGaA form the first-tier enterprises dominating the biological reagent sector. Roche, Vazyme, Abcam, Fapon Biotech, QIAGEN, GenScript and Bio-Techne boast differentiated competitive edges across segmented product lines and end-use scenarios. Fragmented market landscape prevails due to the extensive variety of biological reagent products. Leading domestic Chinese players include Vazyme, YS Biotech (Yisheng Biotech), Sino Biological, AcroBiosystems and Novoprotein. Compared with multinational industry leaders, domestic manufacturers entered the market later and hold relatively low market shares. Nevertheless, fueled by rising domestic focus on supply chain security amid expanding fundamental research and life science industrial development, plus supportive national policies for the biological reagent sector, Chinese indigenous manufacturers are poised to advance import substitution and expand their domestic market footprint.

Spurred by booming life science advancement and continuous technological innovation, biological reagents have witnessed expanding application boundaries beyond traditional procurement by research institutions and biopharma R&D teams, with growing penetration into emerging fields such as high-throughput sequencing, animal quarantine

and in vitro diagnostics. The fast-expanding emerging segments unlock new market demand and deliver strong growth momentum to the overall biological reagent industry.

LPI (LP Information)' newest research report, the 'Biological Reagents Industry Forecast' looks at past sales and reviews total world Biological Reagents sales in 2025, providing a comprehensive analysis by region and market sector of projected Biological Reagents sales for 2026 through 2032. With Biological Reagents sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Biological Reagents industry.

This Insight Report provides a comprehensive analysis of the global Biological Reagents landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Biological Reagents portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biological Reagents market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biological Reagents and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Biological Reagents.

This report presents a comprehensive overview, market shares, and growth opportunities of Biological Reagents market by product type, application, key players and key regions and countries.

Segmentation by Type:

Molecular Reagents (Nucleic Acids, Vectors, etc.)

Protein Reagents (Recombinant Proteins, Antibodies, etc.)

Cell Reagents (Culture Medium, etc.)

Segmentation by Form:

Liquid Reagents

Lyophilized Reagents

Dry Powder Reagents

Segmentation by Application:

Scientific Research

In Vitro Diagnostics

Biomedicine

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Thermo Fisher Scientific

Merck KGaA

Nanjing Vazyme Biotech Co., Ltd

Abcam

Fapon Biotech

QIAGEN

GenScript Biotech Corporation

Bio-Techne

Roche

BD Biosciences

Yeasen Biotechnology (Shanghai) Co., Ltd

Bio-Rad

OPM Biosciences

ACROBiosystems

CUSABIO

Beyotime Biotechnology

Hongene Biotech

Sino Biological Inc

TransGen Biotech

Shanghai Aladdin Biochemical Technology Co., Ltd

Takara Bio

Cowin Biotech

Novoprotein Scientific Inc

Solarbio

ChemExpress

Miltenyi Biotec

New England Biolabs (NEB)

Meridian Life Science Inc

Shanghai Titan Scientific Co., Ltd

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