

## **Life Science Reagents - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-07-01 | 120 pages | Mordor Intelligence

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### **Report description:**

Life Science Reagents Market Analysis

The life science reagents market size stands at USD 68.74 billion in 2025 and is forecast to reach USD 94.21 billion by 2030, advancing at a 6.51% CAGR. Robust uptakes in precision diagnostics, single-cell multiomics and automated laboratory workflows keep demand buoyant even as regulators tighten quality requirements. Hospital laboratories continue to place the largest orders, but pharmaceutical and biotechnology companies are expanding in-house usage as biologics pipelines become more complex. Rapid adoption of AI-guided reagent selection, growing investment in sustainable animal-free formulations and the reshoring of manufacturing capacity collectively protect the growth outlook against lingering supply-chain risks. Emerging disruptors are turning decentralised microfluidic cartridge production into a viable alternative to bulk supply, creating new price and service models that favour agile suppliers with digital logistics .

Global Life Science Reagents Market Trends and Insights

High Burden of Infectious Diseases

Global outbreaks keep molecular and immunoassay reagent volumes elevated. The FDA's flexible emergency-use guidance accelerates market entry for validated rapid-response kits, giving an edge to suppliers with ready-to-scale production platforms . Uptake of point-of-care systems in resource-limited regions is widening access, yet logistics and pricing hurdles persist. Manufacturers able to bundle reagents with compact detection devices gain share by simplifying field deployment. Continuing

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antimicrobial-resistance surveillance furthers demand for high-throughput PCR mastermixes and selective culture media suited to novel pathogen detection.

## Technological Advancements in Genomics & Proteomics

Single-cell sequencing and spatial proteomics are setting new reagent performance benchmarks. Illumina's acquisition of Fluent BioSciences underscores strategic bets on scalable multiomics workflows, pushing suppliers to deliver ultra-low-input enzymes with consistent lot-to-lot kinetics. Automation-ready buffer systems that integrate with self-driving labs have shortened R&D cycles by more than 500 days, cutting reagent wastage and elevating premium SKUs. Vendors able to co-develop kits with instrument makers enjoy preferred-supplier status in expanding install bases.

## High Cost & Pricing Pressure of Specialty Reagents

GMP-grade CRISPR components can cost 5-10 times their research-use equivalents, constraining adoption in budget-limited biotechs. Casgevy therapy's USD 2.2 million price tag demonstrates how reagent expenses cascade into final treatment costs. Lotus-to-plateau pricing dynamics encourage bulk purchasing, but consolidation among enzyme and antibody vendors narrows bargaining power for smaller buyers. Emerging plant-based cell-culture supplements that replace 90% of human platelet lysate hint at cost-relief pathways yet need broader validation.

Other drivers and restraints analyzed in the detailed report include:

Rising R&D Funding & Public-Private Partnerships / Growing Demand for Precision Diagnostics & Personalised Medicine / Stringent Multi-Regional Regulatory Compliance /

For complete list of drivers and restraints, kindly check the Table Of Contents.

## Segment Analysis

Cell and tissue culture reagents retained 29.92% of the life science reagents market share in 2024, a lead anchored in their indispensability to biomanufacturing workflows. The segment benefits from continuous upgrades toward chemically defined, xeno-free media that curb variability and immunogenicity. Companies such as Rohto Pharmaceutical are advancing serum-free stem-cell media that minimise product-to-product drift, commanding premium list prices in regenerative-medicine pipelines. Chromatography reagents post steady revenue underpinned by antibody purification demand, while clinical chemistry panels gain volume through laboratory automation. Molecular diagnostic reagents, projecting a 7.22% CAGR, outpace peers as liquid biopsy, NGS library prep, and microRNA detection protocols scale.

The molecular diagnostics surge illustrates how precision oncology elevates reagent complexity. Declining sequencing costs unlock smaller hospitals and reference labs as new customers. Coupled enzyme mixes for single-tube library construction slash hands-on time and shrink error rates, amplifying brand differentiation. Emerging CRISPR, microbiome and spatial biology kits populate the "other product types" bracket, showcasing how rapid R&D outpaces traditional catalog structures in the life science reagents industry.

While hospitals and diagnostic laboratories consumed 54.39% of the life science reagents market size in 2024, pharmaceutical and biotechnology companies will register the fastest 7.31% CAGR over 2025-2030. Intensifying biologics pipelines spur firms to internalise previously outsourced analytics, driving purchases of high-purity growth factors, resin sets and companion-diagnostic kits. AbbVie's USD 217.74 billion R&D allocation underscores how upstream reagent commitments parallel therapeutic ambitions. Automation-heavy hospital labs favour integrated reagent-instrument bundles that consolidate procurement and quality

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monitoring.

Academic institutes remain reliable customers backed by national grants. NIH's yearly USD 41 billion spend maintains baseline demand for discovery-grade primers, antibodies and reporter dyes, ensuring catalogue breadth retention. Contract research organisations within the "others" cohort widen addressable volumes by requesting flexible lot sizes and fast lead times, rewarding distributors with agile stocking algorithms.

The Life Science Reagents Market Report is Segmented by Product Type (Cell and Tissue Culture Reagents, Chromatography Reagents, and More), End User (Hospitals and Diagnostic Laboratories, and More), Application (Clinical Diagnostics, Drug Discovery and Development, and More), Form (Liquid Reagents, Lyophilized Reagents, Others), and Geography (North America, and More). The Market Forecasts are Provided in Terms of Value (USD).

## Geography Analysis

North America led the life science reagents market size with a 39.21% share in 2024, fuelled by a dense cluster of pharma majors, top-tier research universities and venture-backed start-ups. Substantial Series C rounds, exemplified by ElevateBio's USD 1.3 billion raise, maintain reagent throughput in cell-therapy suites even amid macroeconomic fluctuations. Regulatory predictability under the FDA and strong IP enforcement keep multinational suppliers anchoring bulk production here.

Asia-Pacific is the fastest mover, expanding at a 7.55% CAGR on the back of national biotech blueprints in China, Japan and South Korea. Generous tax credits and park-level infrastructure attract contract development-and-manufacturing organisations that source large-volume media and purification resins locally. Harmonisation with ICH guidelines eases export of region-made reagents to Western clients, closing historical quality-perception gaps.

Europe sustains mid-single-digit growth as Horizon Europe grants channel funds into advanced omics and green-chemistry reagent research. However, incremental compliance layers under the In Vitro Diagnostic Regulation stretch smaller laboratory budgets, nudging purchasing decisions toward dual-certified products that satisfy CE and FDA expectations simultaneously.

Middle East & Africa register rising orders as governments equip new clinical genomics centres, while Latin America benefits from Brazil's biosimilar expansion that raises demand for GMP-grade media and chromatography solutions. Across emerging regions, lyophilised kits capable of withstanding temperature excursions gain traction, underlining format diversification trends in the life science reagents market.

## List of Companies Covered in this Report:

Roche / Thermo Fisher Scientific / Beckton Dickinson / Abbott Laboratories / bioMerieux / Merck / Danaher / Siemens Healthineers / DiaSorin / Sysmex / Bio-Rad Laboratories / Promega / Agilent Technologies / QIAGEN / Illumina / New England Biolabs / PerkinElmer / Lonza Group / Genscript / Takara Bio / Waters Corporation / Bruker / Corning / Charles River /

## Additional Benefits:

<ul> The market estimate (ME) sheet in Excel format /  
3 months of analyst support / </ul>

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