

# Global Liquid Handling Systems Market to Reach USD 6.94 Billion by 2034

*Global liquid handling systems market is growing rapidly, driven by automation, technological integration, and rising demand in drug discovery, genomics*

VANCOUVER, BC, CANADA, September 10, 2025 /EINPresswire.com/ -- The global [liquid handling systems market](#)

is set for steady growth over the next decade, with market size projected to increase from USD 3.99 billion in 2024 to USD 6.94 billion by 2034, growing at a CAGR of 5.69%. Growth will be fueled by the rising adoption of automated systems in laboratories, rapid advances in biotechnology, and the increasing need for accuracy in clinical diagnostics and drug development.



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## Market Overview

Liquid handling systems are critical in modern laboratories, ensuring precise measurement and transfer of liquids for applications in drug discovery, genomics, and diagnostics. The market is expanding as laboratories worldwide adopt automation to reduce human error, improve efficiency, and meet the demands of high-throughput research.

North America remains the largest market, supported by strong healthcare and research infrastructure. Meanwhile, the Asia Pacific region is expected to grow fastest, driven by rising investments in healthcare, government funding, and growing demand for advanced diagnostic tools.

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## Market Drivers

The biggest factor driving this market is the growing adoption of automation and technology integration. Automated liquid handling systems reduce manual errors and significantly increase

throughput, making them essential in both research and clinical laboratories.

A report from the International Federation of Robotics notes that automation in laboratories is growing by 15% annually.

In the U.S., the National Institutes of Health (NIH) has invested over USD 1 billion into initiatives supporting automation in genomics and drug discovery.

Companies are responding with innovative products, such as Thermo Fisher Scientific's VersaMax series, which integrates AI for improved accuracy and data management.

Technologies such as AI and IoT are becoming central, enabling real-time monitoring and advanced data collection. Demand for eco-friendly and sustainable solutions is also shaping new product designs.

### Market Restraints

Despite strong growth, the industry faces a few challenges. Strict regulations, such as the FDA's Good Laboratory Practice (GLP) guidelines, increase compliance costs. Smaller companies, in particular, face hurdles since compliance can take up to 15% of operational budgets.

Operational barriers also exist. Many labs lack trained staff to operate automated systems, with 60% of laboratories reporting technician shortages. High upfront costs and the need for frequent technology upgrades also create obstacles, especially for small research institutions.

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### Market Segmentation Highlights

#### By Product Type:

Automated Liquid Handling Systems are the largest segment, expected to reach USD 4.2 billion by 2034, growing at a CAGR of 5.8%. Their popularity stems from precision and efficiency in large-scale labs.

Microplate Reagent Dispensers are the fastest-growing segment, projected at a 6.2% CAGR, supported by their importance in high-throughput genomics and proteomics research.

#### By Application:

Drug Discovery leads as the largest application, expected to reach USD 3.1 billion by 2034. Increasingly complex drug development processes and AI integration in screening methods are

driving demand.

Genomics is the fastest-growing application with a 6.5% CAGR, fueled by the rising focus on personalized medicine and strong funding, such as the USD 500 million investment by the National Human Genome Research Institute (NHGRI).

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By End User:

Pharmaceutical and Biotechnology Companies are the largest users, projected to reach USD 3.8 billion by 2034. The focus on precision medicine and drug development supports adoption in this segment.

Academic and Research Institutes are the fastest-growing, with a 6.3% CAGR, driven by expanding R&D activities and large-scale government funding programs, such as NIH research grants.

Regional Insights

North America leads the global market, supported by advanced infrastructure, research investments, and high adoption of automation in labs.

Asia Pacific is projected to grow at the fastest rate, with countries like China and India investing heavily in healthcare research and adopting advanced diagnostic solutions.

Europe continues to see growth supported by initiatives such as the Horizon 2020 program, which funds projects using cutting-edge laboratory technologies.

Top 10 Companies

Thermo Fisher Scientific

Eppendorf AG

Hamilton Company

Beckman Coulter

Tecan Group Ltd.

Gilson, Inc.

PerkinElmer, Inc.

Bio-Rad Laboratories, Inc.

Agilent Technologies, Inc.

Danaher Corporation

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Liquid Handling Systems Market Segmentation

By Product Type

Automated Liquid Handling Systems

Manual Liquid Handling Systems

Semi-automated Liquid Handling Systems

Microplate Reagent Dispensers

Pipettes and Pipette Tips

By Application

Drug Discovery

Genomics

Clinical Diagnostics

Proteomics

Others

By End User

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Hospitals and Diagnostic Laboratories

Others

By Technology

Automated

Manual

Semi-automated

By Distribution Channel

Direct Sales

Distributors

Online Sales

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