

# Global Cloud-Based Laboratory Informatic Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Cloud-Based Laboratory Informatic market size was valued at USD 2422.7 million in 2023 and is forecast to a readjusted size of USD 5298.7 million by 2030 with a CAGR of 11.8% during review period.

Laboratory informatics is the specialized application of information technology aimed at optimizing and extending laboratory operations. It encompasses data acquisition (e.g. through sensors and hardware or voice, instrument interfacing, laboratory networking, data processing, specialized data management systems (such as a chromatography data system), a laboratory information management system, scientific data management (including data mining and data warehousing), and knowledge management (including the use of an electronic lab notebook). It has become more prevalent with the rise of other 'informatics' disciplines such as bioinformatics, cheminformatics and health informatics. Several graduate programs are focused on some form of laboratory informatics, often with a clinical emphasis. A closely related - some consider subsuming - field is laboratory automation.

A true cloud lab is defined by five criteria: Users must be able to conduct experiments on-demand at any time from any location, all through a computer interface. The cloud laboratory must enable a user to digitally replicate the experience of standing in a traditional laboratory and manually operating instruments.

The laboratory informatics market is experiencing significant growth as laboratories across various industries are adopting digital solutions to improve efficiency, accuracy, and data management. Here are some key trends in the laboratory informatics market:

1. **Increasing Demand for Laboratory Automation:** Laboratories are increasingly moving towards automation to streamline workflows and improve productivity. Laboratory informatics solutions, such as laboratory information management systems (LIMS) and electronic laboratory notebooks (ELN), are being implemented to automate data capture, analysis, and reporting processes.

2. **Integration of Data and Systems:** Laboratories collect vast amounts of data from different sources and instruments. The trend is to integrate various laboratory informatics systems and instruments to create a comprehensive ecosystem that allows seamless data exchange and collaboration between different stakeholders.

3. **Cloud-Based Solutions:** The adoption of cloud-based laboratory informatics solutions is on the rise, as they provide scalability, flexibility, and easy access to data from multiple devices and locations. Cloud-based solutions also reduce the need for on-site infrastructure and maintenance costs.

4. **Implementation of Artificial Intelligence (AI) and Machine Learning (ML):** AI and ML technologies are being integrated into laboratory informatics solutions to improve data analysis, pattern recognition, and decision-making processes. These technologies can help laboratories identify anomalies, predict outcomes, and optimize experimental conditions.

5. **Compliance with Regulatory Requirements:** Laboratories often operate in regulated environments, such as the pharmaceutical and healthcare industries. Laboratory informatics solutions are being developed to ensure compliance with industry-specific standards and regulations, such as Good Laboratory Practices (GLP) and 21 CFR Part 11.

6. **Mobile Applications:** Mobile applications are being developed to support laboratory operations. These applications allow scientists and technicians to access and capture data, perform calculations, and monitor experiments remotely, improving accessibility and productivity.

7. **Data Security and Privacy:** As laboratories handle sensitive data, the focus on data security and privacy is increasing. Laboratory informatics solutions are incorporating advanced security features, such as encryption, access controls, and audit trails, to protect data from unauthorized access and ensure compliance with data protection regulations.

8. Integration with Internet of Things (IoT): The integration of laboratory instruments and devices with IoT technologies is enabling real-time data monitoring and analytics. This integration provides laboratories with the ability to remotely monitor and control experiments, automate data collection, and optimize resource utilization.

9. Collaboration and Data Sharing: Laboratories are increasingly collaborating with external partners and stakeholders. Laboratory informatics solutions are being designed to facilitate data sharing, collaboration, and standardized data exchange formats, allowing scientists to collaborate seamlessly and share data with external organizations.

10. Emphasis on User Experience and User Interface: User experience and user interface design are becoming essential aspects of laboratory informatics solutions. User-friendly interfaces that are intuitive and customizable are being developed to improve user adoption and reduce training requirements.

Overall, the laboratory informatics market is expected to continue growing as laboratories recognize the benefits of digital solutions in optimizing workflows, improving data management, and enhancing collaboration. The trend is towards automation, integration, cloud-based solutions, AI/ML integration, and enhanced security and regulatory compliance.

The Global Info Research report includes an overview of the development of the Cloud-Based Laboratory Informatic industry chain, the market status of Healthcare (LIMS (Laboratory Information Management System), ELN (electronic Laboratory Notebooks)), R&D (LIMS (Laboratory Information Management System), ELN (electronic Laboratory Notebooks)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Cloud-Based Laboratory Informatic.

Regionally, the report analyzes the Cloud-Based Laboratory Informatic markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Cloud-Based Laboratory Informatic market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Cloud-Based Laboratory

Informatic market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Cloud-Based Laboratory Informatic industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., LIMS (Laboratory Information Management System), ELN (electronic Laboratory Notebooks)).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Cloud-Based Laboratory Informatic market.

**Regional Analysis:** The report involves examining the Cloud-Based Laboratory Informatic market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Cloud-Based Laboratory Informatic market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Cloud-Based Laboratory Informatic:

**Company Analysis:** Report covers individual Cloud-Based Laboratory Informatic players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Cloud-Based Laboratory Informatic This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Healthcare, R&D).

**Technology Analysis:** Report covers specific technologies relevant to Cloud-Based Laboratory Informatic. It assesses the current state, advancements, and potential future developments in Cloud-Based Laboratory Informatic areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Cloud-Based Laboratory Informatic market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Cloud-Based Laboratory Informatic market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

#### Market segment by Type

LIMS (Laboratory Information Management System)

ELN (electronic Laboratory Notebooks)

SDMS (Scientific Data Management System)

Chromatography Data System

CAPA (Corrective Action & Prevention Action)

#### Market segment by Application

Healthcare

R&D

Finance

Legal

Life sciences

Market segment by players, this report covers

Arxspan

Dassault Syst?mes

LabArchives

Core Informatics

Thermo Fisher Scientific

LabWare

XIFIN

Abbott Informatics

Agilent Technologies

Caliber Infosolutions

Two Fold Software

CompuGroup Medical

Illumina

ID Business Solutions

Lablynx

Labvantage Solutions

NXG

Perkinelmer

Swisslab

Tainosystems

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Cloud-Based Laboratory Informatic product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Cloud-Based Laboratory Informatic, with revenue, gross margin and global market share of Cloud-Based Laboratory Informatic from 2019 to 2024.

Chapter 3, the Cloud-Based Laboratory Informatic competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with

revenue and market share for key countries in the world, from 2019 to 2024.and Cloud-Based Laboratory Informatic market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Cloud-Based Laboratory Informatic.

Chapter 13, to describe Cloud-Based Laboratory Informatic research findings and conclusion.



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