

Growing Japan IVD Quality Control Market: Advancements in Healthcare Infrastructure & Regulatory Compliance Drive Demand

Japan IVD Quality Control Market to Observe CAGR of ~4.5% During 2023 – 2031; says AMI

HOUSTON, TEXAS, UNITED STATES, August 2, 2023 /EINPresswire.com/ -- IVD quality control market in Japan has seen notable technological advancements that have enhanced the accuracy, efficiency, and reliability of diagnostic testing. These advancements have been driven by various factors, including the increasing demand for more sophisticated diagnostic solutions, the need to address the challenges posed by chronic diseases and an aging population, and the pursuit of better patient outcomes. A few of the key technological advancements in the IVD quality control market across Japan are listed below:



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- Automation and robotics have revolutionized IVD Quality Control processes in laboratories. Automated systems can handle a large number of samples efficiently, reducing human errors and increasing testing throughput. This technology has significantly improved the precision and consistency of test results. For example, advanced software platforms use artificial intelligence and machine learning algorithms to analyze quality control data continuously. These systems can detect trends, flag potential issues, and provide insights for proactive maintenance, ensuring the reliability of test results.
- Point-of-Care Testing (POCT) devices allow for on-site testing outside of traditional laboratory settings, providing rapid results and enabling faster decision-making. These devices are particularly useful in remote or underserved areas and emergency situations. Japan has seen the

deployment of automated POCT devices in various healthcare settings. These devices can perform rapid diagnostic tests with minimal user intervention, enabling real-time decision-making and immediate patient care.

- Advances in molecular diagnostic technologies, such as polymerase chain reaction (PCR) and nucleic acid amplification techniques, have facilitated the detection of infectious diseases, genetic disorders, and cancer biomarkers with higher sensitivity and specificity. With the introduction of novel molecular assays, comprehensive validation studies are essential to assess assay performance. IVD Quality Control guidelines require thorough validation of new molecular diagnostic tests to ensure that they meet regulatory standards and deliver accurate clinical information.
- The integration of IVD quality control with digital health technologies, such as telemedicine and electronic health records, has improved data management, real-time monitoring, and remote collaboration between healthcare professionals. For instance, Sysmex is a prominent Japanese company known for its innovative diagnostic solutions. They offer a range of IVD products, including hematology analyzers, flow cytometry systems, and coagulation analyzers, which are integrated with digital health technologies. These systems can be connected to hospital information systems (HIS) and electronic health records (EHRs) for automated data exchange and real-time quality control monitoring. Similarly, Fujirebio is a leading manufacturer of IVD products, focusing on immunoassays and biomarkers for various diseases. They provide digital health solutions that allow for seamless integration of their diagnostic platforms with hospital networks, enabling automated data transfer and quality control management.
- Next-Generation Sequencing has revolutionized genetic testing by allowing simultaneous analysis of multiple genes or entire genomes, providing insights into disease risk, drug response, and personalized medicine. IVD Quality Control for NGS involves the use of well-characterized reference materials, bioinformatics analysis, and standardization to ensure consistent and accurate results.

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These technological advancements in the IVD Quality Control market have not only improved diagnostic accuracy but have also contributed to cost-effectiveness, patient convenience, and better healthcare outcomes.

Continued research and development, along with regulatory support, are expected to drive further innovations in the field, transforming the landscape of diagnostic testing in Japan and beyond.

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A few of the key players operating in the Japan IVD quality control market are:

- o Abbott Diagnostics
- o Beckman Coulter, Inc.
- o Bio-Rad Laboratories, Inc.
- o F. Hoffmann-La Roche Ltd
- o Fortress Diagnostics
- o Fujirebio Inc.
- o Horiba Medical Japan Co., Ltd.
- o Randox Laboratories
- o Sekisui Medical Co., Ltd.
- o Sysmex Corporation
- o Thermo Fisher Scientific Inc.
- o Other Market Participants

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Japan IVD Quality Control Market

By Offerings

- o Quality Control Products
 - Serum based
 - Whole Blood
 - Urine
- o Quality Assurance Services
- o Data Management Solutions

By Control (Analytes)

- o Immunochemistry
- o Clinical Chemistry
- o Microbiology
- o Hematology
- o Coagulation
- o Infectious disease

- o Diabetics/ Hemoglobin
- o Cardiology
- o Others

By Manufacturer Type

- o Dependent/first-party controls
- o Independent/third party controls

By End Users

- o Hospitals and Clinics
- o Laboratories
- o Research Institutes
- o Others

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By Region

- o Hokkaido
- o Tohoku
- o Kanto
- o Chubu
- o Kinki/Kansai
- o Chugoku
- o Shikoku
- o Kyushu (incl. Okinawa)

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Contact Us:

Contact Name: Shreyas Tanna

Company: Absolute Markets Insights

Email Id: sales@absolutemarketsinsights.com

Phone: IN +91-7400-24-24-24, US +1-510-420-1213

Website: www.absolutemarketsinsights.com

Shreyas Tanna

Absolute Markets Insights

+1 510-420-1213

[email us here](#)

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