

# Global Blood-Based Biomarkers Market Size, By Type (Genetic Biomarkers), By Application (Cancer, Cardiovascular, Neurological Diseases), By Technology (Next-Generation Sequencing, Polymerase Chain Reaction), By End Use, and Regional Forecasts 2022-2032

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## Abstracts

The global blood-based biomarkers market is valued at approximately USD 7.32 billion in 2023 and is anticipated to grow at a CAGR of 7.2% over the forecast period 2024-2032. The market is experiencing significant growth due to the rising prevalence of chronic and degenerative diseases, including cancer, cardiovascular diseases, and neurological disorders. The ability of blood-based biomarkers to offer non-invasive, cost-effective, and early disease detection solutions has positioned them as a preferred diagnostic tool in modern precision medicine.

The increasing adoption of next-generation sequencing (NGS), polymerase chain reaction (PCR), and liquid biopsy technologies has enhanced the accuracy and efficiency of biomarker-based diagnostics. Liquid biopsy-based biomarker testing is revolutionizing oncology by enabling early cancer detection through circulating tumor DNA (ctDNA) analysis. Moreover, advancements in AI-driven biomarker analysis are optimizing disease prediction models and personalized treatment plans, improving patient outcomes. Strategic industry partnerships, such as the collaboration between ADx NeuroSciences and Alamar Biosciences for high-sensitivity neurodegenerative biomarkers, further fuel market expansion.

Despite its strong growth trajectory, regulatory and reimbursement challenges present hurdles in widespread biomarker adoption. Limited reimbursement frameworks in

healthcare systems, particularly for emerging biomarker-driven diagnostics, can impact accessibility and affordability. However, continued government investments in precision medicine, rising awareness of preventive diagnostics, and improving regulatory pathways for biomarker approval are expected to mitigate these barriers over time.

North America holds the largest market share, attributed to strong R&D investments, an established healthcare infrastructure, and increasing adoption of biomarker-based diagnostics. The U.S. market, in particular, is witnessing a surge in approvals for innovative biomarker-based tests, such as Labcorp's pTau217 blood biomarker for Alzheimer's disease. The Asia Pacific region is projected to experience the fastest growth, driven by expanding healthcare access, rising chronic disease prevalence, and growing biomarker research investments in China, India, and Japan.

#### Major Market Players Included in This Report:

Abbott

F. Hoffmann-La Roche Ltd.

Siemens Healthineers AG

Thermo Fisher Scientific, Inc.

Bio-Rad Laboratories, Inc.

Cleveland Diagnostics, Inc.

BIOM?RIEUX

Sysmex Corporation

Exact Sciences Corporation

Quanterix Corporation

Guardant Health, Inc.

Menarini Silicon Biosystems

Sunbird Bio

QIAGEN N.V.

Harbinger Health

The Detailed Segments and Sub-Segments of the Market are Explained Below:

By Type:

Genetic Biomarkers

Protein Biomarkers

Metabolic Biomarkers

Cell-Based Biomarkers

Epigenetic Biomarkers

By Application:

Cancer

Cardiovascular Diseases

Neurological Diseases

Immunological Diseases

Others

By Technology:

Next-Generation Sequencing (NGS)

Polymerase Chain Reaction (PCR)

Immunoassays

Mass Spectrometry

Others

By End Use:

Hospitals & Clinics

Diagnostic Laboratories

Research & Academic Institutes

Others

By Region:

North America:

U.S.

Canada

Mexico

Europe:

UK

Germany

France

Italy

Spain

Sweden

Denmark

Norway

Asia Pacific:

China

Japan

India

South Korea

Australia

Thailand

Latin America:

Brazil

Argentina

Middle East & Africa:

Saudi Arabia

UAE

South Africa

Kuwait

Years Considered for the Study Are as Follows:

Historical Year – 2022, 2023

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years (2022-2032)

Annualized Revenue and Regional Level Analysis for Each Market Segment

Detailed Geographical Landscape Analysis with Country-Level Market Insights

Competitive Landscape, Market Share Analysis & Key Business Strategies

Demand-Supply Analysis & Future Market Outlook

Key Investment Opportunities & Emerging Trends in the Facial Tissues Industry

Regulatory Landscape & Impact on Market Growth

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