

# **Hematology Diagnostics Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type**

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## **Abstracts**

### **Hematology Diagnostics Market Summary**

#### **Introduction**

The hematology diagnostics industry focuses on the development and application of tools and technologies to analyze blood and diagnose disorders related to blood and blood-forming organs. This sector plays a vital role in healthcare by enabling the detection and management of conditions such as anemia, leukemia, lymphoma, thalassemia, sickle cell disease, and other hematologic malignancies. Globally, anemia affects an estimated 40% of children aged 6–59 months, 37% of pregnant women, and 30% of women aged 15–49 years, contributing to 50 million years of healthy life lost due to disability in 2019, primarily from dietary iron deficiency, thalassemia, sickle cell trait, and malaria. Approximately 7% of the world's population carries abnormal hemoglobin genes, resulting in around 400,000 infants born with hemoglobinopathies annually. Blood cancers rank as the fifth most common cancer type globally, with about 1.3 million new cases diagnosed in 2020. The industry is characterized by its reliance on advanced instruments and consumables, including automated analyzers, flow cytometers, and reagents, which provide rapid, accurate, and comprehensive blood analysis. Technological advancements, such as point-of-care testing and integration of artificial intelligence, are transforming diagnostics, making them more accessible and efficient. The market is driven by rising disease prevalence, aging populations, and increasing demand for early detection and personalized treatment, though it faces challenges like high equipment costs and regulatory complexities.

#### **Market Size and Growth Forecast**

The global hematology diagnostics market is projected to reach USD 4.8 billion to USD 5.2 billion by 2025, with an estimated compound annual growth rate (CAGR) of 5% to 7% through 2030. This growth is propelled by the increasing burden of blood disorders, technological innovations in diagnostic tools, and expanding healthcare infrastructure in emerging economies.

## Regional Analysis

North America is a leading region in the hematology diagnostics market, with growth rates estimated between 4% and 6%. The United States drives this trend, supported by advanced healthcare systems, high adoption of cutting-edge technologies, and a significant prevalence of blood disorders. The focus here is on automation and precision diagnostics, with hospitals and diagnostic labs increasingly integrating AI-driven analyzers to enhance workflow efficiency and diagnostic accuracy.

Europe follows closely, with growth projected at 4.5% to 6%. Countries like Germany, France, and the UK are key contributors, benefiting from strong regulatory frameworks and government initiatives to improve healthcare access. The region emphasizes sustainable healthcare solutions and advanced testing for chronic conditions like anemia and leukemia, reflecting a mature market with steady demand.

Asia Pacific is anticipated to exhibit the fastest growth, ranging from 6% to 8%, driven by China, India, and Japan. China's rapid healthcare expansion and India's rising awareness of early diagnosis fuel demand, while Japan focuses on high-precision instruments for an aging population. The region's growth is bolstered by increasing investments in diagnostic infrastructure and a growing burden of genetic blood disorders.

Latin America shows growth estimates of 3.5% to 5%, with Brazil and Mexico leading adoption. Trends here center on improving access to diagnostics in urban centers, though rural areas lag due to infrastructure limitations. The Middle East and Africa, with growth between 4% and 6%, see demand rise in the UAE and South Africa, driven by urbanization and investments in healthcare facilities, though widespread adoption remains constrained by economic disparities.

## Application Analysis

**Diagnostic Laboratories:** This segment, the largest application area, is expected to grow

at 5% to 7%. These facilities rely heavily on high-throughput analyzers and consumables for routine and specialized testing, such as complete blood counts (CBC) and hemoglobinopathy screening. The trend is toward automation and centralized testing hubs to handle rising patient volumes efficiently.

**Hospitals & Clinics:** Projected to grow at 4.5% to 6.5%, this application benefits from the integration of point-of-care devices, enabling rapid diagnostics at the bedside. Hospitals increasingly adopt compact, user-friendly systems to support immediate clinical decisions, particularly in emergency and oncology departments.

**Academic & Research Institutes:** With growth estimated at 4% to 6%, this segment focuses on advanced research into blood disorders and novel diagnostic methods. The use of sophisticated instruments like flow cytometers is rising, driven by efforts to understand disease mechanisms and develop targeted therapies.

## Type Analysis

**Instruments:** Expected to grow at 5% to 7%, this category includes hematology analyzers, flow cytometers, and coagulation testers. These devices are evolving with features like automation, connectivity to laboratory information systems, and enhanced precision, catering to the demand for faster and more reliable diagnostics.

**Consumables:** Projected at 5.5% to 7.5%, consumables such as reagents, stains, and controls are essential for daily operations. The trend is toward eco-friendly and concentrated reagents, reducing waste and operational costs while supporting high-volume testing in labs and hospitals.

## Key Market Players

**Abbott Laboratories:** A global healthcare leader, Abbott specializes in diagnostic instruments and consumables, focusing on user-friendly solutions for blood analysis.

**Sysmex:** A Japanese pioneer, Sysmex excels in automated hematology analyzers, emphasizing high-throughput and precision for clinical diagnostics.

**Roche:** Known for its diagnostic innovations, Roche integrates hematology testing into its broader portfolio, targeting oncology and chronic disease management.

**Danaher:** Through its subsidiary Beckman Coulter, Danaher offers advanced analyzers

and reagents, catering to both clinical and research needs.

**Siemens Healthineers:** A German giant, Siemens provides cutting-edge diagnostic systems, blending automation with digital health solutions.

**Bio-Rad Laboratories:** This firm focuses on quality control products and specialized testing tools for hematology research and diagnostics.

**Werfen:** A specialist in diagnostics, Werfen delivers coagulation and blood analysis solutions for hospitals and labs.

**Mindray:** A Chinese innovator, Mindray offers cost-effective, high-performance analyzers, targeting emerging markets.

**HORIBA:** A Japanese company, HORIBA provides compact and precise hematology systems for diverse healthcare settings.

**Nihon Kohden:** Known for medical electronics, Nihon Kohden supplies analyzers tailored to clinical diagnostics.

**Boule Diagnostics:** A Swedish firm, Boule focuses on affordable, reliable hematology solutions for smaller labs and clinics.

**Diatron:** This company offers compact analyzers and reagents, serving diagnostic labs globally.

**Drew Scientific:** Specializing in hematology instruments, Drew Scientific targets niche diagnostic applications.

**EKF Diagnostics:** A UK-based firm, EKF provides point-of-care and laboratory diagnostic tools.

**Ortho Clinical Diagnostics:** This player focuses on blood screening and diagnostic systems for healthcare providers.

## Porter's Five Forces Analysis

**Threat of New Entrants:** Moderate. High capital requirements and technical expertise create barriers, though emerging players in Asia Pacific are gradually

entering with cost-competitive offerings.

**Threat of Substitutes:** Low to Moderate. While alternative diagnostic methods like molecular testing exist, hematology diagnostics remain the gold standard for blood disorder detection due to their speed and specificity.

**Bargaining Power of Buyers:** Moderate to High. Large hospitals and labs wield negotiating power due to bulk purchasing, though reliance on specialized equipment limits switching options.

**Bargaining Power of Suppliers:** Moderate. Suppliers of reagents and components hold some leverage, but vertical integration by major players reduces dependency.

**Competitive Rivalry:** High. Established firms like Sysmex, Abbott, and Roche compete fiercely on innovation, pricing, and global reach, with new entrants intensifying pressure in cost-sensitive markets.

## Market Opportunities and Challenges

### Opportunities

**Rising Disease Prevalence:** The global burden of anemia, hemoglobinopathies, and blood cancers—1.3 million new cases in 2020—drives demand for diagnostics, particularly in underserved regions.

**Technological Advancements:** Innovations in automation, AI, and point-of-care testing enhance diagnostic speed and accessibility, opening new market segments.

**Emerging Markets:** Asia Pacific and Africa offer growth potential as healthcare infrastructure expands and awareness of early diagnosis increases.

**Personalized Medicine:** Integration of diagnostics with genetic profiling supports tailored treatments, boosting demand for advanced instruments.

**Aging Population:** An older demographic, especially in Europe and Japan, increases the need for routine blood monitoring and chronic disease

management.

## Challenges

**High Costs:** Expensive instruments and consumables limit adoption in low-income regions, despite growing demand.

**Regulatory Hurdles:** Stringent approval processes across regions delay product launches and increase compliance costs.

**Skilled Workforce Shortage:** Operating advanced systems requires trained personnel, a constraint in developing markets.

**Reimbursement Issues:** Inconsistent coverage for diagnostic tests in some countries hampers affordability and uptake.

**Supply Chain Volatility:** Global disruptions, such as those seen in recent years, affect the availability of critical consumables, impacting service delivery.

## Contents

### **CHAPTER 1 EXECUTIVE SUMMARY**

### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Hematology Diagnostics Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

## **CHAPTER 8 HISTORICAL AND FORECAST HEMATOLOGY DIAGNOSTICS MARKET IN NORTH AMERICA (2020-2030)**

8.1 Hematology Diagnostics Market Size

8.2 Hematology Diagnostics Market by End Use

8.3 Competition by Players/Suppliers

8.4 Hematology Diagnostics Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

## **CHAPTER 9 HISTORICAL AND FORECAST HEMATOLOGY DIAGNOSTICS MARKET IN SOUTH AMERICA (2020-2030)**

9.1 Hematology Diagnostics Market Size

9.2 Hematology Diagnostics Market by End Use

9.3 Competition by Players/Suppliers

9.4 Hematology Diagnostics Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

## **CHAPTER 10 HISTORICAL AND FORECAST HEMATOLOGY DIAGNOSTICS MARKET IN ASIA & PACIFIC (2020-2030)**

10.1 Hematology Diagnostics Market Size

10.2 Hematology Diagnostics Market by End Use

10.3 Competition by Players/Suppliers

10.4 Hematology Diagnostics Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan



- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

## **CHAPTER 11 HISTORICAL AND FORECAST HEMATOLOGY DIAGNOSTICS MARKET IN EUROPE (2020-2030)**

- 11.1 Hematology Diagnostics Market Size
- 11.2 Hematology Diagnostics Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Hematology Diagnostics Market Size by Type
- 11.5 Key Countries Analysis
  - 11.5.1 Germany
  - 11.5.2 France
  - 11.5.3 United Kingdom
  - 11.5.4 Italy
  - 11.5.5 Spain
  - 11.5.6 Belgium
  - 11.5.7 Netherlands
  - 11.5.8 Austria
  - 11.5.9 Poland
  - 11.5.10 Russia

## **CHAPTER 12 HISTORICAL AND FORECAST HEMATOLOGY DIAGNOSTICS MARKET IN MEA (2020-2030)**

- 12.1 Hematology Diagnostics Market Size
- 12.2 Hematology Diagnostics Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Hematology Diagnostics Market Size by Type
- 12.5 Key Countries Analysis
  - 12.5.1 Egypt
  - 12.5.2 Israel
  - 12.5.3 South Africa
  - 12.5.4 Gulf Cooperation Council Countries
  - 12.5.5 Turkey

## **CHAPTER 13 SUMMARY FOR GLOBAL HEMATOLOGY DIAGNOSTICS MARKET (2020-2025)**

- 13.1 Hematology Diagnostics Market Size
- 13.2 Hematology Diagnostics Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Hematology Diagnostics Market Size by Type

## **CHAPTER 14 GLOBAL HEMATOLOGY DIAGNOSTICS MARKET FORECAST (2025-2030)**

- 14.1 Hematology Diagnostics Market Size Forecast
- 14.2 Hematology Diagnostics Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Hematology Diagnostics Type Forecast

## **CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS**

- 15.1 Abbott Laboratories
  - 15.1.1 Company Profile
  - 15.1.2 Main Business and Hematology Diagnostics Information
  - 15.1.3 SWOT Analysis of Abbott Laboratories
  - 15.1.4 Abbott Laboratories Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Sysmex
  - 15.2.1 Company Profile
  - 15.2.2 Main Business and Hematology Diagnostics Information
  - 15.2.3 SWOT Analysis of Sysmex
  - 15.2.4 Sysmex Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Roche
  - 15.3.1 Company Profile
  - 15.3.2 Main Business and Hematology Diagnostics Information
  - 15.3.3 SWOT Analysis of Roche
  - 15.3.4 Roche Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Danaher
  - 15.4.1 Company Profile
  - 15.4.2 Main Business and Hematology Diagnostics Information
  - 15.4.3 SWOT Analysis of Danaher
  - 15.4.4 Danaher Hematology Diagnostics Revenue, Gross Margin and Market Share

(2020-2025)

#### 15.5 Siemens Healthineers

15.5.1 Company Profile

15.5.2 Main Business and Hematology Diagnostics Information

15.5.3 SWOT Analysis of Siemens Healthineers

15.5.4 Siemens Healthineers Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

#### 15.6 Bio-Rad Laboratories

15.6.1 Company Profile

15.6.2 Main Business and Hematology Diagnostics Information

15.6.3 SWOT Analysis of Bio-Rad Laboratories

15.6.4 Bio-Rad Laboratories Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

#### 15.7 Werfen

15.7.1 Company Profile

15.7.2 Main Business and Hematology Diagnostics Information

15.7.3 SWOT Analysis of Werfen

15.7.4 Werfen Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

#### 15.8 Mindray

15.8.1 Company Profile

15.8.2 Main Business and Hematology Diagnostics Information

15.8.3 SWOT Analysis of Mindray

15.8.4 Mindray Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

#### 15.9 HORIBA

15.9.1 Company Profile

15.9.2 Main Business and Hematology Diagnostics Information

15.9.3 SWOT Analysis of HORIBA

15.9.4 HORIBA Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

#### 15.10 Nihon Kohden

15.10.1 Company Profile

15.10.2 Main Business and Hematology Diagnostics Information

15.10.3 SWOT Analysis of Nihon Kohden

15.10.4 Nihon Kohden Hematology Diagnostics Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms	
Table Research Scope of Hematology Diagnostics Report	
Table Data Sources of Hematology Diagnostics Report	
Table Major Assumptions of Hematology Diagnostics Report	
Figure Market Size Estimated Method	
Figure Major Forecasting Factors	
Figure Hematology Diagnostics Picture	
Table Hematology Diagnostics Classification	
Table Hematology Diagnostics Applications	
Table Drivers of Hematology Diagnostics Market	
Table Restraints of Hematology Diagnostics Market	
Table Opportunities of Hematology Diagnostics Market	
Table Threats of Hematology Diagnostics Market	
Table Covid-19 Impact For Hematology Diagnostics Market	
Table Raw Materials Suppliers	
Table Different Production Methods of Hematology Diagnostics	
Table Cost Structure Analysis of Hematology Diagnostics	
Table Key End Users	
Table Latest News of Hematology Diagnostics Market	
Table Merger and Acquisition	
Table Planned/Future Project of Hematology Diagnostics Market	
Table Policy of Hematology Diagnostics Market	
Table 2020-2030 North America Hematology Diagnostics Market Size	
Figure 2020-2030 North America Hematology Diagnostics Market Size and CAGR	
Table 2020-2030 North America Hematology Diagnostics Market Size by Application	
Table 2020-2025 North America Hematology Diagnostics Key Players Revenue	
Table 2020-2025 North America Hematology Diagnostics Key Players Market Share	
Table 2020-2030 North America Hematology Diagnostics Market Size by Type	
Table 2020-2030 United States Hematology Diagnostics Market Size	
Table 2020-2030 Canada Hematology Diagnostics Market Size	
Table 2020-2030 Mexico Hematology Diagnostics Market Size	
Table 2020-2030 South America Hematology Diagnostics Market Size	
Figure 2020-2030 South America Hematology Diagnostics Market Size and CAGR	
Table 2020-2030 South America Hematology Diagnostics Market Size by Application	
Table 2020-2025 South America Hematology Diagnostics Key Players Revenue	
Table 2020-2025 South America Hematology Diagnostics Key Players Market Share	
Table 2020-2030 South America Hematology Diagnostics Market Size by Type	
Table 2020-2030 Brazil Hematology Diagnostics Market Size	
Table 2020-2030 Argentina Hematology Diagnostics Market Size	

Table 2020-2030 Chile Hematology Diagnostics Market Size
Table 2020-2030 Peru Hematology Diagnostics Market Size
Table 2020-2030 Asia & Pacific Hematology Diagnostics Market Size
Figure 2020-2030 Asia & Pacific Hematology Diagnostics Market Size and CAGR
Table 2020-2030 Asia & Pacific Hematology Diagnostics Market Size by Application
Table 2020-2025 Asia & Pacific Hematology Diagnostics Key Players Revenue
Table 2020-2025 Asia & Pacific Hematology Diagnostics Key Players Market Share
Table 2020-2030 Asia & Pacific Hematology Diagnostics Market Size by Type
Table 2020-2030 China Hematology Diagnostics Market Size
Table 2020-2030 India Hematology Diagnostics Market Size
Table 2020-2030 Japan Hematology Diagnostics Market Size
Table 2020-2030 South Korea Hematology Diagnostics Market Size
Table 2020-2030 Southeast Asia Hematology Diagnostics Market Size
Table 2020-2030 Australia Hematology Diagnostics Market Size
Table 2020-2030 Europe Hematology Diagnostics Market Size
Figure 2020-2030 Europe Hematology Diagnostics Market Size and CAGR
Table 2020-2030 Europe Hematology Diagnostics Market Size by Application
Table 2020-2025 Europe Hematology Diagnostics Key Players Revenue
Table 2020-2025 Europe Hematology Diagnostics Key Players Market Share
Table 2020-2030 Europe Hematology Diagnostics Market Size by Type
Table 2020-2030 Germany Hematology Diagnostics Market Size
Table 2020-2030 France Hematology Diagnostics Market Size
Table 2020-2030 United Kingdom Hematology Diagnostics Market Size
Table 2020-2030 Italy Hematology Diagnostics Market Size
Table 2020-2030 Spain Hematology Diagnostics Market Size
Table 2020-2030 Belgium Hematology Diagnostics Market Size
Table 2020-2030 Netherlands Hematology Diagnostics Market Size
Table 2020-2030 Austria Hematology Diagnostics Market Size
Table 2020-2030 Poland Hematology Diagnostics Market Size
Table 2020-2030 Russia Hematology Diagnostics Market Size
Table 2020-2030 MEA Hematology Diagnostics Market Size
Figure 2020-2030 MEA Hematology Diagnostics Market Size and CAGR
Table 2020-2030 MEA Hematology Diagnostics Market Size by Application
Table 2020-2025 MEA Hematology Diagnostics Key Players Revenue
Table 2020-2025 MEA Hematology Diagnostics Key Players Market Share
Table 2020-2030 MEA Hematology Diagnostics Market Size by Type
Table 2020-2030 Egypt Hematology Diagnostics Market Size
Table 2020-2030 Israel Hematology Diagnostics Market Size
Table 2020-2030 South Africa Hematology Diagnostics Market Size

Table 2020-2030 Gulf Cooperation Council Countries Hematology Diagnostics Market Size

Table 2020-2030 Turkey Hematology Diagnostics Market Size

Table 2020-2025 Global Hematology Diagnostics Market Size by Region

Table 2020-2025 Global Hematology Diagnostics Market Size Share by Region

Table 2020-2025 Global Hematology Diagnostics Market Size by Application

Table 2020-2025 Global Hematology Diagnostics Market Share by Application

Table 2020-2025 Global Hematology Diagnostics Key Vendors Revenue

Figure 2020-2025 Global Hematology Diagnostics Market Size and Growth Rate

Table 2020-2025 Global Hematology Diagnostics Key Vendors Market Share

Table 2020-2025 Global Hematology Diagnostics Market Size by Type

Table 2020-2025 Global Hematology Diagnostics Market Share by Type

Table 2025-2030 Global Hematology Diagnostics Market Size by Region

Table 2025-2030 Global Hematology Diagnostics Market Size Share by Region

Table 2025-2030 Global Hematology Diagnostics Market Size by Application

Table 2025-2030 Global Hematology Diagnostics Market Share by Application

Table 2025-2030 Global Hematology Diagnostics Key Vendors Revenue

Figure 2025-2030 Global Hematology Diagnostics Market Size and Growth Rate

Table 2025-2030 Global Hematology Diagnostics Key Vendors Market Share

Table 2025-2030 Global Hematology Diagnostics Market Size by Type

Table 2025-2030 Hematology Diagnostics Global Market Share by Type

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