

# **Immunoematology Market Outlook 2025-2034: Market Share, and Growth Analysis By Product (Analyzers And Systems, Reagents), By Technology (Biochips, Erythrocyte-Magnetized Technology (Met), Gel Cards, Microplates, Polymerase Chain Reaction (PCR)), By Disease, By Application, By End User**

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## **Abstracts**

The Immunoematology Market is valued at USD 3.3 billion in 2025 and is projected to grow at a CAGR of 6.7% to reach USD 5.9 billion by 2034. The Immunoematology Market focuses on the study of antigens and antibodies in human blood, specifically related to blood transfusions, blood typing, and compatibility testing.

Immunoematology is essential in the prevention of hemolytic reactions and the safe transfusion of blood and blood products. Blood typing, crossmatching, and antibody screening are key processes within this market, ensuring that the right blood type is administered to patients. The market is driven by the increasing number of blood donations, demand for safe blood transfusions, and advancements in technology that improve the accuracy and speed of blood compatibility testing. Additionally, as the global population ages and the incidence of chronic diseases increases, the need for immunoematology testing continues to grow, especially in healthcare settings like hospitals, blood banks, and transfusion centers. The immunoematology market saw continued growth driven by technological advancements and increased demand for safe and accurate blood transfusions. The integration of automation and AI in blood compatibility testing streamlined processes, reduced errors, and improved workflow efficiency in clinical settings. Newer blood typing reagents and equipment, capable of testing for a broader range of blood group systems, were introduced, enhancing the precision of blood matching. Additionally, next-generation sequencing (NGS) technologies enabled more detailed blood group analysis, particularly for rare blood

types. The adoption of point-of-care immunohematology tests, which provide rapid results for critical patients, also gained traction. As blood safety and efficiency became paramount, global collaborations and blood donation programs helped ensure the availability of safe blood supplies in both developed and emerging markets. The immunohematology market is expected to expand with innovations in molecular blood typing, artificial intelligence, and improved diagnostic tools. AI-based blood compatibility systems will enable faster, more accurate decision-making, reducing the time patients wait for blood transfusions. Personalized medicine approaches will drive the use of immunohematology tests to match patients with the most suitable blood products based on their genetic profiles. Automation and robotics in blood testing will make transfusion centers more efficient, minimizing human error and reducing operational costs. Additionally, the growth of telemedicine and mobile health applications will further expand access to immunohematology testing, particularly in rural and underserved areas. As global healthcare systems continue to modernize, immunohematology will remain a critical component of blood safety and transfusion medicine.

### Key Insights Immunohematology Market

Integration of AI and automation is improving the speed and accuracy of blood typing and crossmatching, reducing errors and enhancing patient safety.

Next-generation sequencing (NGS) is being increasingly used for more detailed blood group analysis, especially for rare and complex blood types.

Point-of-care immunohematology tests are gaining popularity, providing rapid results in emergency and critical care settings.

Personalized transfusion medicine is emerging, with genetic profiling enabling better matching of blood products to patients.

Technological advancements in molecular blood typing systems are improving blood compatibility testing and donor screening processes.

Increasing demand for blood transfusions due to the rising prevalence of chronic diseases, surgeries, and trauma care is driving growth in immunohematology testing.

Technological innovations in automation, AI, and molecular diagnostics are improving blood compatibility testing, enhancing accuracy and workflow.

Growing awareness about the importance of blood safety and transfusion medicine is leading to higher adoption of advanced immunohematology solutions in hospitals and blood banks.

Global healthcare infrastructure improvements and increasing investments in healthcare systems are expanding access to safe blood products in emerging markets.

High costs associated with advanced immunohematology testing equipment and reagents can limit access, particularly in low-resource settings.

Limited donor availability and the complexities of rare blood type matching remain challenges in ensuring a steady supply of compatible blood products.

## Immunohematology Market Segmentation

### By Product

Analyzers And Systems

Reagents

### By Technology

Biochips

Erythrocyte-Magnetized Technology (Met)

Gel Cards

Microplates

Polymerase Chain Reaction (PCR)

### By Disease

Blood-Related Diseases

HIV

Hepatitis

#### By Application

Pretransfusion Testing

Investigation Of Immune Hemolysis

Perinatal Testing

Blood Group Phenotyping

Leucocyte And Platelet Serology

#### By End User

Blood Banks

Diagnostic And Reference Laboratories

Hospitals

Academic And Research Institutes

#### Key Companies Analysed

Ortho Clinical Diagnostics Inc.

Immunocor Inc.

Abbott Laboratories

Siemens Healthineers AG

Grifols S.A.

Beckman Coulter Inc.

Thermo Fisher Scientific Inc.

Becton Dickinson and Company

Merck Co. & KGaA

Bio-Rad Laboratories

Nihon Kohden Corporation

Sysmex Corporation

Danaher Corporation

Biosystems S.A.

Roche Holdings AG

Mindray Medical International Limited

F.Hoffmann La-Roche Ltd.

Biotest AG

Cardinal Health Inc.

Quotient Limited

DiaSorin S.p.A.

Harvard bioscience Inc.

Cenogenics Corporation

Lorne Laboratories Ltd.

Biokit S.A.

Avox Technologies

Diagnostic Automation/Cortez Diagnostics Inc.

Inno-train Diagnostik GmbH

Cellnovo Group

Drucker Diagnostics Inc.

Immundia Diagnostics Pvt. Ltd.

## Immunoematology Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Immunoematology Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Immunoematology market data and outlook to 2034

United States

Canada

Mexico

Europe — Immunoematology market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Immunoematology market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Immunoematology market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Immunoematology market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Immunohematology value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Immunohematology industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Immunohematology Market Report

Global Immunohematology market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Immunohematology trade, costs, and supply chains

Immunohematology market size, share, and outlook across 5 regions and 27

countries, 2023-2034

Immunohematology market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Immunohematology market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Immunohematology supply chain analysis

Immunohematology trade analysis, Immunohematology market price analysis, and Immunohematology supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Immunohematology market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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