

Blood Group Typing Market by Product (Consumables, Instruments, Services), Test Type (ABO, Antigen, Antibody, HLA), Technique (Assay-based, PCR, Microarray, Massively Parallel Sequencing), End User (Hospital, Blood Banks), Region - Global Forecast to 2028

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Abstracts

The blood group typing market is valued at an estimated USD 2.0 billion in 2023 and is projected to reach USD 3.0 billion by 2028, at a CAGR of 8.7% during the forecast period. Severe post-partum hemorrhage (bleeding during delivery or after childbirth) is the leading cause of maternal mortality worldwide. Additionally, childhood anemia, trauma, and congenital blood disorders are other emergency conditions requiring blood transfusions. Urgent and timely treatment is required to manage these patients, including transfusion of blood and blood products. The overall increase in the number of blood transfusions is leading to the increased adoption of blood group typing methods in order to ensure the safety and compatibility of the transfused blood. This is driving the overall growth of the market.

“Antibody screening segment accounted for the highest growth rate in the blood group typing market, by test type, during the forecast period.”

The blood group typing market is bifurcated into ABO blood tests & Rh typing, antibody screening, HLA typing, cross-matching tests, and antigen typing on the basis of test type. The antibody screening segment in the blood group typing market is experiencing substantial growth, largely driven by the increasing incidence of diseases such as autoimmune disorders and cancers. The use of antibody screening methods is also growing due to the rising focus on R&D in antigen-specific therapies in response to the

increasing incidence of chronic diseases.

“PCR-based and microarray techniques segment accounted for the highest growth rate in the blood group typing market, by techniques, during the forecast period.”

The global blood group typing market is bifurcated into assay-based techniques, PCR-based and microarray techniques, massively parallel sequencing, and other techniques. The PCR-based and microarray techniques segment is currently witnessing the highest growth rate within the blood group typing market. PCR-based techniques have emerged as powerful tools to accurately identify and characterize rare blood group antigens at the genetic level. However, PCR methods have limited throughput and multiplex capacity. To overcome these limitations, microarray platforms have been developed. Microarray platforms give more detailed information about blood group antigens than basic PCR methods. Owing to the advantages of these methods, such as high accuracy over traditional methods, their adoption is increasing among end users.

“Asia Pacific: The fastest-growing region blood group typing market”

The global blood group typing market is segmented into North America, Europe, the Asia Pacific, Latin America, and the Middle East & Africa. The Asia Pacific market is expected to witness the highest growth during the forecast period due to factors such as government efforts to increase awareness about the importance of blood donations and regular health check-ups, continuously rising healthcare expenditures, an increasing number of hospitals in India and China, and strengthening research bases for diagnostic procedures across India, China, and Japan. Furthermore, supportive government regulations will further aid the growth of this market during the forecast period.

The break-up of the profile of primary participants in the blood group typing market:

By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 – 30%

By Designation: C-level - 27%, D-level - 18%, and Others - 55%

By Region: North America - 51%, Europe - 21%, Asia Pacific - 18%, Latin America – 6%, and Middle East & Africa- 4%

The key players in this market are Bio-Rad Laboratories, Inc. (US), QuidelOrtho Corporation (US), Grifols, S.A. (Spain), Thermo Fisher Scientific Inc. (US), Immucor,

Inc. (US), Danaher (US), Merck KGaA (Germany), Quotient Limited (Switzerland), Novacyt (France), BAG Health Care GmbH (Germany), Rapid Labs Ltd (UK), Agena Bioscience, Inc. (US), Biorex Diagnostics (UK), HUMAN Gesellschaft f?r Biochemica und Diagnostica mbH (Germany), Prestige Diagnostics (UK), Span Diagnostics SARL (France), DIALAB GmbH (Austria), Lorne Laboratories Limited (UK), Atlas Medical GmbH (Germany), Torax Biosciences Limited (Northern Ireland), Fortress Diagnostics (UK), AXO Science (France), Maxwin Health Care Pvt. Ltd. (India), Anamol Laboratories Pvt. Ltd. (India), J. Mitra & Co. Pvt. Ltd. (India), and MedSource Ozone Biomedicals Pvt. Ltd. (India).

Research Coverage:

This research report categorizes the blood group typing market by product & service (consumables, instruments, and services & software), test type (ABO blood tests & Rh typing, antibody screening, HLA typing, cross-matching tests, and antigen typing), technique (assay-based techniques, PCR-based and microarray techniques, massively parallel sequencing, and other techniques), end user (hospitals, blood banks, clinical laboratories, and other end users), and region (North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, and opportunities, influencing the growth of the blood group typing market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions and services, key strategies, acquisitions, and agreements. New product & service launches and recent developments associated with the blood group typing market. Competitive analysis of upcoming startups in the blood group typing market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall blood group typing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing prevalence of chronic diseases and rising number of surgical procedures necessitating need for blood donations, growing number of road accidents, emergencies, and trauma cases necessitating blood transfusions, increasing demand for blood group typing in prenatal testing, high usage of blood group typing in forensic sciences, extensive R&D in blood typing, and stringent regulatory standards for blood transfusion), restraints (emergence of blood alternatives), and opportunities (growth opportunities in emerging economies) influencing the growth of the blood group typing market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the blood group typing market.

Market Development: Comprehensive information about lucrative markets – the report analyses the blood group typing market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the blood group typing market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Bio-Rad Laboratories, Inc. (US), QuidelOrtho Corporation (US), Grifols, S.A. (Spain), Thermo Fisher Scientific Inc. (US), and Immucor, Inc. (US), among others in the blood group typing market strategies.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 BLOOD GROUP TYPING MARKET
 - 1.3.2 GEOGRAPHIC SCOPE
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
- 2.2 RESEARCH APPROACH
 - FIGURE 1 BLOOD GROUP TYPING MARKET: RESEARCH DESIGN
 - METHODOLOGY
 - 2.2.1 SECONDARY DATA
 - 2.2.1.1 Key data from secondary sources
 - 2.2.2 PRIMARY DATA
 - 2.2.2.1 Primary sources
 - 2.2.2.2 Key data from primary sources
 - 2.2.2.3 Key industry insights
 - 2.2.2.4 Breakdown of primary interviews
 - FIGURE 2 BREAKDOWN OF PRIMARY INTERVIEWS: SUPPLY-SIDE AND DEMAND-SIDE PARTICIPANTS
 - FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.1.1 Approach 1: Company revenue estimation approach
 - FIGURE 4 BOTTOM-UP APPROACH: COMPANY REVENUE ESTIMATION APPROACH
 - 2.3.1.2 Approach 2: Presentations of companies and primary interviews

2.3.1.3 Growth forecast

2.3.1.4 CAGR projections

FIGURE 5 CAGR PROJECTIONS: SUPPLY-SIDE ANALYSIS

2.3.2 TOP-DOWN APPROACH

FIGURE 6 BLOOD GROUP TYPING MARKET: TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION METHODOLOGY

2.5 MARKET SHARE ANALYSIS

2.6 STUDY ASSUMPTIONS

2.7 GROWTH RATE ASSUMPTIONS

2.8 RISK ASSESSMENT

2.8.1 RISK ASSESSMENT: BLOOD GROUP TYPING MARKET

2.9 RECESSION IMPACT

3 EXECUTIVE SUMMARY

FIGURE 8 BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE,

2023 VS. 2028 (USD MILLION)

FIGURE 9 BLOOD GROUP TYPING MARKET, BY TEST TYPE,

2023 VS. 2028 (USD MILLION)

FIGURE 10 BLOOD GROUP TYPING MARKET, BY TECHNIQUE,

2023 VS. 2028 (USD MILLION)

FIGURE 11 BLOOD GROUP TYPING MARKET, BY END USER,

2023 VS. 2028 (USD MILLION)

FIGURE 12 BLOOD GROUP TYPING MARKET, BY REGION, 2023 VS. 2028 (USD MILLION)

4 PREMIUM INSIGHTS

4.1 BLOOD GROUP TYPING MARKET OVERVIEW

FIGURE 13 INCREASING PREVALENCE OF CHRONIC CONDITIONS TO SUPPORT

Blood Group Typing Market by Product (Consumables, Instruments, Services), Test Type (ABO, Antigen, Antibody,...

MARKET GROWTH DURING FORECAST PERIOD

4.2 BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2023 VS. 2028

FIGURE 14 CONSUMABLES SEGMENT TO CONTINUE TO DOMINATE MARKET IN 2028

4.3 BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2023 VS. 2028

FIGURE 15 ABO BLOOD TESTS & RH TYPING SEGMENT TO DOMINATE MARKET IN 2028

4.4 BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2023 VS. 2028

FIGURE 16 ASSAY-BASED TECHNIQUES SEGMENT TO ACCOUNT FOR LARGEST SHARE OF MARKET DURING FORECAST PERIOD

4.5 BLOOD GROUP TYPING MARKET, BY END USER, 2023 VS. 2028

FIGURE 17 HOSPITALS SEGMENT TO CONTINUE TO DOMINATE MARKET IN 2028

4.6 BLOOD GROUP TYPING MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 18 ASIA PACIFIC TO REGISTER HIGHEST GROWTH RATE IN BLOOD GROUP TYPING MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 BLOOD GROUP TYPING MARKET: DRIVERS, RESTRAINTS, AND OPPORTUNITIES

5.2.1 DRIVERS

5.2.1.1 Increasing prevalence of chronic diseases and rising number of surgical procedures necessitating need for blood donations

FIGURE 20 NUMBER OF PEOPLE WITH CHRONIC CONDITIONS IN US, 2015–2030 (MILLION INDIVIDUALS)

5.2.1.2 Growing number of road accidents, emergencies, and trauma cases necessitating blood transfusions

5.2.1.3 Increasing demand for blood group typing in prenatal testing

5.2.1.4 High usage of blood group typing in forensic sciences

5.2.1.5 Extensive R&D in blood typing

5.2.1.6 Stringent regulatory standards for blood transfusion

TABLE 1 LIST OF PRODUCTS CBER REGULATES

5.2.2 RESTRAINTS

5.2.2.1 Emergence of blood alternatives

5.2.3 OPPORTUNITIES

5.2.3.1 Growth opportunities in emerging economies

5.3 PRICING ANALYSIS

- 5.3.1 INDICATIVE PRICING MODEL ANALYSIS OF MARKET PLAYERS
- TABLE 2 INDICATIVE PRICING FOR BLOOD GROUP TYPING PRODUCTS
- 5.3.2 AVERAGE SELLING PRICE OF BLOOD GROUP TYPING PRODUCTS, BY KEY PLAYER
- TABLE 3 AVERAGE SELLING PRICE OF BLOOD GROUP TYPING PRODUCTS
- 5.4 PATENT ANALYSIS
- FIGURE 21 PATENT ANALYSIS FOR BLOOD GROUP TYPING REAGENTS (JANUARY 2013–DECEMBER 2022)
- 5.4.1 LIST OF MAJOR PATENTS
- 5.5 VALUE CHAIN ANALYSIS
- FIGURE 22 VALUE CHAIN ANALYSIS OF BLOOD GROUP TYPING MARKET: MAJOR VALUE ADDED DURING MANUFACTURING AND ASSEMBLY PHASES
- 5.6 SUPPLY CHAIN ANALYSIS
- FIGURE 23 BLOOD GROUP TYPING MARKET: SUPPLY CHAIN ANALYSIS
- 5.7 ECOSYSTEM ANALYSIS
- FIGURE 24 BLOOD GROUP TYPING MARKET: ECOSYSTEM ANALYSIS
- 5.7.1 BLOOD GROUP TYPING MARKET: ROLE IN ECOSYSTEM
- 5.8 PORTER'S FIVE FORCES ANALYSIS
- TABLE 4 BLOOD GROUP TYPING MARKET: PORTER'S FIVE FORCES ANALYSIS
- 5.8.1 THREAT OF NEW ENTRANTS
- 5.8.2 THREAT OF SUBSTITUTES
- 5.8.3 BARGAINING POWER OF BUYERS
- 5.8.4 BARGAINING POWER OF SUPPLIERS
- 5.8.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.9 REGULATORY LANDSCAPE
- TABLE 5 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 6 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 7 LATIN AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 8 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- 5.9.1 NORTH AMERICA
 - 5.9.1.1 US
 - 5.9.1.2 Canada
- 5.9.2 EUROPE
- TABLE 9 EUROPE: CLASSIFICATION OF DEVICES
- 5.9.3 ASIA PACIFIC

5.9.3.1 China

5.9.3.2 Japan

TABLE 10 JAPAN: TIME, COST, AND COMPLEXITY OF REGISTRATION PROCESS

5.9.3.3 India

5.9.4 LATIN AMERICA

5.9.4.1 Brazil

5.9.5 MIDDLE EAST

5.10 TRADE ANALYSIS

5.10.1 TRADE ANALYSIS FOR DIAGNOSTIC AND LABORATORY REAGENTS

TABLE 11 IMPORT DATA FOR DIAGNOSTIC AND LABORATORY REAGENTS, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 12 EXPORT DATA FOR DIAGNOSTIC AND LABORATORY REAGENTS, BY COUNTRY, 2018–2022 (USD MILLION)

5.11 TECHNOLOGY ANALYSIS

5.12 KEY CONFERENCES & EVENTS IN 2023–2024

TABLE 13 BLOOD GROUP TYPING MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.13 PESTLE ANALYSIS

5.14 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 25 REVENUE SHIFT IN BLOOD GROUP TYPING MARKET

5.15 KEY STAKEHOLDERS & BUYING CRITERIA

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 26 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF BLOOD GROUP TYPING PRODUCTS

TABLE 14 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS OF BLOOD GROUP TYPING PRODUCTS (%)

5.15.2 BUYING CRITERIA

FIGURE 27 KEY BUYING CRITERIA FOR BLOOD GROUP TYPING PRODUCTS

TABLE 15 KEY BUYING CRITERIA FOR BLOOD GROUP TYPING PRODUCTS

5.15.3 CASE STUDY ANALYSIS

6 BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE

6.1 INTRODUCTION

TABLE 16 BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

6.2 CONSUMABLES

TABLE 17 KEY CONSUMABLES AVAILABLE IN MARKET

TABLE 18 BLOOD GROUP TYPING CONSUMABLES MARKET, BY REGION,

2021–2028 (USD MILLION)

TABLE 19 BLOOD GROUP TYPING CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

6.2.1 ANTISERA REAGENTS

6.2.1.1 Increasing demand for cost-effective blood typing solutions to support uptake of antisera reagents

TABLE 20 ANTISERA REAGENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

6.2.2 ANTI-HUMAN GLOBULIN REAGENTS

6.2.2.1 Increasing number of organ transplantations to drive uptake of AHG reagents

TABLE 21 ANTI-HUMAN GLOBULIN REAGENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

6.2.3 RED BLOOD CELL REAGENTS

6.2.3.1 Higher compatibility of red blood cell reagents with variety of blood group typing techniques to support uptake

TABLE 22 RED BLOOD CELL REAGENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

6.2.4 BLOOD BANK SALINE

6.2.4.1 Ability of blood bank saline to preserve integrity of RBCs to support market growth

TABLE 23 BLOOD BANK SALINE MARKET, BY REGION, 2021–2028 (USD MILLION)

6.3 INSTRUMENTS

6.3.1 GROWING NEED FOR FASTER & MORE ACCURATE TEST RESULTS TO BOOST DEMAND FOR BLOOD GROUP TYPING INSTRUMENTS

TABLE 24 KEY INSTRUMENTS AVAILABLE IN MARKET

TABLE 25 BLOOD GROUP TYPING INSTRUMENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

6.4 SERVICES & SOFTWARE

6.4.1 GROWING UPTAKE OF ADVANCED INSTRUMENTS TO DRIVE GROWTH IN MARKET SEGMENT

TABLE 26 BLOOD GROUP TYPING SERVICES & SOFTWARE MARKET, BY REGION, 2021–2028 (USD MILLION)

7 BLOOD GROUP TYPING MARKET, BY TEST TYPE

7.1 INTRODUCTION

TABLE 27 BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

7.2 ABO BLOOD TESTS & RH TYPING

7.2.1 GROWING AWARENESS OF IMPORTANCE OF BLOOD DONATION TO DRIVE GROWTH

TABLE 28 BLOOD GROUP TYPING MARKET FOR ABO BLOOD TESTS & RH TYPING, BY REGION, 2021–2028 (USD MILLION)

7.3 ANTIBODY SCREENING

7.3.1 INCREASING INCIDENCE OF CANCER AND AUTOIMMUNE DISORDERS TO SUPPORT GROWTH

TABLE 29 BLOOD GROUP TYPING MARKET FOR ANTIBODY SCREENING, BY REGION, 2021–2028 (USD MILLION)

7.4 HLA TYPING

7.4.1 INCREASING NUMBER OF ORGAN TRANSPLANTS TO STIMULATE DEMAND FOR HLA TYPING

TABLE 30 BLOOD GROUP TYPING MARKET FOR HLA TYPING, BY REGION, 2021–2028 (USD MILLION)

7.5 CROSS-MATCHING TESTS

7.5.1 GROWING NEED FOR BLOOD TRANSFUSION TO PROPEL MARKET GROWTH

TABLE 31 BLOOD GROUP TYPING MARKET FOR CROSS-MATCHING TESTS, BY REGION, 2021–2028 (USD MILLION)

7.6 ANTIGEN TYPING

7.6.1 INCREASING CASES OF INCORRECT BLOOD TRANSFUSION TO FUEL GROWTH

TABLE 32 BLOOD GROUP TYPING MARKET FOR ANTIGEN TYPING, BY REGION, 2021–2028 (USD MILLION)

8 BLOOD GROUP TYPING MARKET, BY TECHNIQUE

8.1 INTRODUCTION

TABLE 33 BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

8.2 ASSAY-BASED TECHNIQUES

8.2.1 AUTOMATION, SENSITIVITY, OBJECTIVITY, AND ADAPTABILITY OF ASSAY-BASED TECHNIQUES TO BOOST ADOPTION

TABLE 34 BLOOD GROUP TYPING MARKET FOR ASSAY-BASED TECHNIQUES, BY REGION, 2021–2028 (USD MILLION)

8.3 PCR-BASED AND MICROARRAY TECHNIQUES

8.3.1 HIGH ACCURACY OF PCR-BASED AND MICROARRAY TECHNIQUES TO SUPPORT GROWTH

TABLE 35 BLOOD GROUP TYPING MARKET FOR PCR-BASED AND MICROARRAY

TECHNIQUES, BY REGION, 2021–2028 (USD MILLION)

8.4 MASSIVELY PARALLEL SEQUENCING

8.4.1 ABILITY TO DETECT LOW-FREQUENCY ALLELES TO DRIVE DEMAND FOR MPS TECHNIQUES

TABLE 36 BLOOD GROUP TYPING MARKET FOR MASSIVELY PARALLEL SEQUENCING, BY REGION, 2021–2028 (USD MILLION)

8.5 OTHER TECHNIQUES

TABLE 37 BLOOD GROUP TYPING MARKET FOR OTHER TECHNIQUES, BY REGION, 2021–2028 (USD MILLION)

9 BLOOD GROUP TYPING MARKET, BY END USER

9.1 INTRODUCTION

TABLE 38 BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

9.2 PRIMARY NOTES

9.2.1 KEY PRIMARY INSIGHTS

9.3 HOSPITALS

9.3.1 INCREASING NUMBER OF HOSPITALS TO BOOST GROWTH

TABLE 39 BLOOD GROUP TYPING MARKET FOR HOSPITALS, BY REGION, 2021–2028 (USD MILLION)

9.4 BLOOD BANKS

9.4.1 GROWING NUMBER OF BLOOD DONATIONS TO PROPEL MARKET GROWTH

TABLE 40 BLOOD GROUP TYPING MARKET FOR BLOOD BANKS, BY REGION, 2021–2028 (USD MILLION)

9.5 CLINICAL LABORATORIES

9.5.1 GROWING PREVALENCE OF BLOOD DISORDERS TO BOLSTER GROWTH

TABLE 41 BLOOD GROUP TYPING MARKET FOR CLINICAL LABORATORIES, BY REGION, 2021–2028 (USD MILLION)

9.6 OTHER END USERS

TABLE 42 BLOOD GROUP TYPING MARKET FOR OTHER END USERS, BY REGION, 2021–2028 (USD MILLION)

10 BLOOD GROUP TYPING MARKET, BY REGION

10.1 INTRODUCTION

TABLE 43 BLOOD GROUP TYPING MARKET, BY REGION, 2021–2028 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 28 NORTH AMERICA: BLOOD GROUP TYPING MARKET SNAPSHOT

TABLE 44 NORTH AMERICA: BLOOD GROUP TYPING MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 45 NORTH AMERICA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 46 NORTH AMERICA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 47 NORTH AMERICA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 48 NORTH AMERICA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.2.1 NORTH AMERICA: RECESSION IMPACT

10.2.2 US

10.2.2.1 Increasing prevalence of chronic conditions to drive market growth

TABLE 49 ESTIMATED NUMBER OF SINGLE ORGAN TRANSPLANTS PERFORMED IN US

TABLE 50 US: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 51 US: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 52 US: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 53 US: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.2.3 CANADA

10.2.3.1 Increasing incidence of blood cancer to boost market

TABLE 54 CANADA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 55 CANADA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 56 CANADA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 57 CANADA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3 EUROPE

TABLE 58 EUROPE: BLOOD GROUP TYPING MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 59 EUROPE: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE,

2021–2028 (USD MILLION)

TABLE 60 EUROPE: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 61 EUROPE: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 62 EUROPE: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.1 EUROPE: RECESSION IMPACT

10.3.2 GERMANY

10.3.2.1 Increasing healthcare expenditure to drive market growth

TABLE 63 GERMANY: CANCER INCIDENCE, BY TYPE, 2020

TABLE 64 GERMANY: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 65 GERMANY: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 66 GERMANY: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 67 GERMANY: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.3 UK

10.3.3.1 Growing number of road accidents to propel market growth

TABLE 68 UK: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 69 UK: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 70 UK: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 71 UK: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.4 FRANCE

10.3.4.1 Rising R&D expenditure in France to drive market growth

TABLE 72 FRANCE: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 73 FRANCE: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 74 FRANCE: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 75 FRANCE: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.5 ITALY

10.3.5.1 Increasing number of blood donors to favor market growth

TABLE 76 ITALY: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 77 ITALY: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 78 ITALY: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 79 ITALY: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.6 SPAIN

10.3.6.1 Consolidation of laboratories in Spain to support market growth

TABLE 80 SPAIN: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 81 SPAIN: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 82 SPAIN: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 83 SPAIN: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.7 REST OF EUROPE

TABLE 84 REST OF EUROPE: PERCENTAGE OF GDP ON HEALTHCARE EXPENDITURE, BY COUNTRY

TABLE 85 REST OF EUROPE: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 86 REST OF EUROPE: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 87 REST OF EUROPE: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 88 REST OF EUROPE: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4 ASIA PACIFIC

FIGURE 29 ASIA PACIFIC: BLOOD GROUP TYPING MARKET SNAPSHOT

TABLE 89 ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 90 ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 91 ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 92 ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 93 ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.1 ASIA PACIFIC: RECESSION IMPACT

10.4.2 CHINA

10.4.2.1 Growing public access to modern healthcare to drive market growth

TABLE 94 CHINA: HEMATOLOGY CANCER INCIDENCE, BY TYPE, 2020

TABLE 95 CHINA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 96 CHINA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 97 CHINA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 98 CHINA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.3 JAPAN

10.4.3.1 Universal healthcare reimbursement policy to drive market growth in Japan

TABLE 99 JAPAN: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 100 JAPAN: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 101 JAPAN: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 102 JAPAN: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.4 INDIA

10.4.4.1 Increasing private & public investments in healthcare system to drive market growth

TABLE 103 INDIA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 104 INDIA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 105 INDIA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 106 INDIA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.5 REST OF ASIA PACIFIC

TABLE 107 REST OF ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY

PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 108 REST OF ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 109 REST OF ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 110 REST OF ASIA PACIFIC: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.5 LATIN AMERICA

10.5.1 IMPLEMENTATION OF UNIVERSAL HEALTH COVERAGE TO SUPPORT MARKET GROWTH

TABLE 111 BRAZIL: HEMATOLOGY CANCER INCIDENCE, BY TYPE, 2020

TABLE 112 LATIN AMERICA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 113 LATIN AMERICA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 114 LATIN AMERICA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 115 LATIN AMERICA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

10.5.2 LATIN AMERICA: RECESSION IMPACT

10.6 MIDDLE EAST & AFRICA

10.6.1 STRENGTHENING OF HEALTHCARE INFRASTRUCTURE TO SUPPORT MARKET GROWTH

TABLE 116 MIDDLE EAST & AFRICA: BLOOD GROUP TYPING MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 117 MIDDLE EAST & AFRICA: BLOOD GROUP TYPING MARKET, BY TEST TYPE, 2021–2028 (USD MILLION)

TABLE 118 MIDDLE EAST & AFRICA: BLOOD GROUP TYPING MARKET, BY TECHNIQUE, 2021–2028 (USD MILLION)

TABLE 119 MIDDLE EAST & AFRICA: BLOOD GROUP TYPING MARKET, BY END USER, 2021–2028 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 STRATEGIES OF KEY PLAYERS

11.2.1 OVERVIEW OF STRATEGIES ADOPTED BY PLAYERS IN BLOOD GROUP TYPING MARKET

TABLE 120 OVERVIEW OF STRATEGIES DEPLOYED BY KEY BLOOD GROUP

TYPING MANUFACTURING COMPANIES

11.3 REVENUE SHARE ANALYSIS OF TOP MARKET PLAYERS

FIGURE 30 REVENUE SHARE ANALYSIS OF TOP PLAYERS IN BLOOD GROUP TYPING MARKET

11.4 MARKET SHARE ANALYSIS

FIGURE 31 BLOOD GROUP TYPING MARKET SHARE, BY KEY PLAYER (2022)

TABLE 121 BLOOD GROUP TYPING MARKET: DEGREE OF COMPETITION

11.5 COMPANY EVALUATION QUADRANT FOR KEY PLAYERS (2022)

11.5.1 LIST OF EVALUATED VENDORS

11.5.2 STARS

11.5.3 EMERGING LEADERS

11.5.4 PERVASIVE PLAYERS

11.5.5 PARTICIPANTS

FIGURE 32 BLOOD GROUP TYPING MARKET: COMPANY EVALUATION QUADRANT, 2022

11.6 COMPETITIVE EVALUATION QUADRANT FOR START-UPS/SMES (2022)

11.6.1 PROGRESSIVE COMPANIES

11.6.2 STARTING BLOCKS

11.6.3 RESPONSIVE COMPANIES

11.6.4 DYNAMIC COMPANIES

FIGURE 33 BLOOD GROUP TYPING MARKET: COMPANY EVALUATION QUADRANT FOR START-UPS/SMES, 2022

11.6.5 PRODUCT AND GEOGRAPHIC FOOTPRINT ANALYSIS

FIGURE 34 PRODUCT AND GEOGRAPHIC FOOTPRINT ANALYSIS OF TOP PLAYERS IN BLOOD GROUP TYPING MARKET

TABLE 122 BLOOD GROUP TYPING MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS

TABLE 123 COMPANY PRODUCT & SERVICE FOOTPRINT

TABLE 124 COMPANY REGIONAL FOOTPRINT

TABLE 125 BLOOD GROUP TYPING MARKET: DETAILED LIST OF KEY START-UPS/SMES

11.7 COMPETITIVE SCENARIO

11.7.1 PRODUCT LAUNCHES

TABLE 126 KEY PRODUCT LAUNCHES & APPROVALS (JANUARY 2020–AUGUST 2023)

11.7.2 DEALS

TABLE 127 KEY DEALS (JANUARY 2020–AUGUST 2023)

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1 KEY PLAYERS

12.1.1 BIO-RAD LABORATORIES, INC.

TABLE 128 BIO-RAD LABORATORIES, INC.: BUSINESS OVERVIEW

FIGURE 35 BIO-RAD LABORATORIES, INC.: COMPANY SNAPSHOT (2022)

12.1.2 QUIDELORTHO CORPORATION

TABLE 129 QUIDELORTHO CORPORATION: BUSINESS OVERVIEW

FIGURE 36 QUIDELORTHO CORPORATION: COMPANY SNAPSHOT (2022)

12.1.3 GRIFOLS, S.A.

TABLE 130 GRIFOLS, S.A.: BUSINESS OVERVIEW

FIGURE 37 GRIFOLS, S.A.: COMPANY SNAPSHOT (2022)

12.1.4 THERMO FISHER SCIENTIFIC INC.

TABLE 131 THERMO FISHER SCIENTIFIC INC.: BUSINESS OVERVIEW

FIGURE 38 THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT (2022)

12.1.5 IMMUCOR, INC.

TABLE 132 IMMUCOR, INC.: BUSINESS OVERVIEW

12.1.6 QUOTIENT LIMITED

TABLE 133 QUOTIENT LIMITED: BUSINESS OVERVIEW

FIGURE 39 QUOTIENT LIMITED: COMPANY SNAPSHOT (2021)

12.1.7 DANAHER

TABLE 134 DANAHER: BUSINESS OVERVIEW

FIGURE 40 DANAHER: COMPANY SNAPSHOT (2022)

12.1.8 MERCK KGAA

TABLE 135 MERCK KGAA: BUSINESS OVERVIEW

FIGURE 41 MERCK KGAA: COMPANY SNAPSHOT (2022)

12.1.9 NOVACYT

TABLE 136 NOVACYT: BUSINESS OVERVIEW

FIGURE 42 NOVACYT: COMPANY SNAPSHOT (2022)

12.1.10 BAG HEALTH CARE GMBH

TABLE 137 BAG HEALTH CARE GMBH: BUSINESS OVERVIEW

12.1.11 RAPID LABS LTD.

TABLE 138 RAPID LABS LTD.: BUSINESS OVERVIEW

12.2 OTHER PLAYERS

12.2.1 AGENA BIOSCIENCE, INC.

TABLE 139 AGENA BIOSCIENCE, INC.: COMPANY OVERVIEW

12.2.2 BIOREX DIAGNOSTICS

TABLE 140 BIOREX DIAGNOSTICS: COMPANY OVERVIEW

12.2.3 HUMAN GESELLSCHAFT FÜR BIOCHEMICA UND DIAGNOSTICA MBH

TABLE 141 HUMAN GESELLSCHAFT FÜR BIOCHEMICA UND DIAGNOSTICA MBH:
COMPANY OVERVIEW

12.2.4 PRESTIGE DIAGNOSTICS

TABLE 142 PRESTIGE DIAGNOSTICS: COMPANY OVERVIEW

12.2.5 DIALAB GMBH

TABLE 143 DIALAB GMBH: COMPANY OVERVIEW

12.2.6 LORNE LABORATORIES LIMITED

TABLE 144 LORNE LABORATORIES LIMITED: COMPANY OVERVIEW

12.2.7 ATLAS MEDICAL GMBH

TABLE 145 ATLAS MEDICAL GMBH: COMPANY OVERVIEW

12.2.8 TORAX BIOSCIENCES LIMITED

TABLE 146 TORAX BIOSCIENCES LIMITED: COMPANY OVERVIEW

12.2.9 FORTRESS DIAGNOSTICS

TABLE 147 FORTRESS DIAGNOSTICS: COMPANY OVERVIEW

12.2.10 AXO SCIENCE

TABLE 148 AXO SCIENCE: COMPANY OVERVIEW

12.2.11 MAXWIN HEALTH CARE PVT. LTD.

TABLE 149 MAXWIN HEALTH CARE PVT. LTD.: COMPANY OVERVIEW

12.2.12 ANAMOL LABORATORIES PVT. LTD.

TABLE 150 ANAMOL LABORATORIES PVT. LTD.: COMPANY OVERVIEW

12.2.13 J. MITRA & CO. PVT. LTD.

TABLE 151 J. MITRA & CO. PVT. LTD.: COMPANY OVERVIEW

12.2.14 MEDSOURCE OZONE BIOMEDICALS PVT. LTD.

TABLE 152 MEDSOURCE OZONE BIOMEDICALS PVT. LTD.: COMPANY
OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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