

HLA Typing for Transplant Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product & Service (Reagents & Consumables, Instruments, Software & Services), By Technology (Molecular Assay Technologies, Non-molecular Assay Technologies), By Application (Diagnostic Applications, Antibody Screening, Chimerism Monitoring, Research Applications, Others), By Transplant Type (Solid Organ Transplant, Soft Tissue Transplant) Region and Competition, 2019-2029F

<https://marketpublishers.com/r/HE9B25A81F5AEN.html>

Date: May 2024

Pages: 185

Price: US\$ 4,900.00 (Single User License)

ID: HE9B25A81F5AEN

Abstracts

Global HLA Typing for Transplant Market was valued at USD 1.02 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.01% through 2029. The Global HLA Typing for Transplant Market is a dynamic and critical sector within the broader healthcare industry, dedicated to the assessment and analysis of Human Leukocyte Antigen (HLA) profiles for organ and tissue transplantation. HLA typing is a fundamental component of the transplant process, as it determines the compatibility between donors and recipients, significantly influencing the success of transplant procedures. This market encompasses a wide range of products and services designed to identify and match HLA profiles, thereby reducing the risk of rejection and improving transplant outcomes.

One of the key drivers of the Global HLA Typing for Transplant Market is the growing demand for organ and tissue transplants due to the rising prevalence of chronic

diseases and the aging population worldwide. As the need for transplants increases, so does the demand for accurate and timely HLA typing to ensure compatibility and minimize the risk of graft-versus-host disease (GVHD) or graft rejection. Additionally, advancements in molecular biology and genomics have led to the development of innovative and more precise HLA typing techniques, further fueling market growth.

The market comprises various segments, including HLA typing products, services, and software solutions. HLA typing products typically involve reagents, kits, and instruments for laboratory testing, while services encompass testing and consultation offered by clinical laboratories. HLA typing software plays a crucial role in data management, analysis, and reporting.

Key Market Drivers

Growing Demand for Organ Transplants

The growing demand for organ transplants is a significant driver behind the burgeoning Global HLA Typing for Transplant Market. Across the globe, the need for life-saving organ and tissue transplants has been steadily rising, fueled by various factors. Chronic diseases such as end-stage renal disease, heart failure, and liver cirrhosis, among others, have become increasingly prevalent, and these conditions often necessitate organ transplantation for patients' survival. The aging population in many countries has also contributed to the surge in transplant demand, as age-related organ dysfunction becomes more common.

In this context, HLA typing plays a pivotal role in addressing the demand for successful transplant procedures. Human Leukocyte Antigen (HLA) typing is the cornerstone of compatibility assessment between donors and recipients. It involves analyzing specific genetic markers that determine the likelihood of transplant rejection or complications, making it an essential step in the pre-transplant evaluation process. When HLA profiles are accurately matched between donors and recipients, the chances of graft-versus-host disease (GVHD) and graft rejection are significantly reduced, thereby increasing the overall success rate of transplantation.

Advancements in medical science and surgical techniques have also extended the eligibility for transplantation to a broader range of patients, further contributing to the growing demand. These factors, combined with increased patient and healthcare provider awareness of the potential benefits of HLA typing, have led to more

comprehensive and widespread use of HLA typing services and products. Patients and their families are increasingly seeking out HLA testing to ensure a better match with potential donors, and healthcare professionals are actively recommending this procedure to enhance transplantation outcomes.

Expanding Application of HLA Typing

The Global HLA Typing for Transplant Market is experiencing remarkable growth due to the expanding applications of HLA typing across various medical fields. HLA typing, which has traditionally been associated with organ and tissue transplantation, is increasingly finding relevance in a broader spectrum of healthcare areas, propelling the market forward.

One of the key drivers behind this market expansion is the application of HLA typing in hematopoietic stem cell transplantation. For patients with blood-related disorders, such as leukemia, lymphoma, and certain inherited immune system deficiencies, stem cell transplantation can be a life-saving procedure. HLA compatibility between the donor and recipient is paramount in ensuring a successful outcome, reducing the risk of graft-versus-host disease (GVHD). This growing application of HLA typing has led to increased demand for more advanced and precise HLA typing techniques, stimulating market growth.

Moreover, the role of HLA typing extends beyond transplantation into the diagnosis of autoimmune diseases. Certain HLA alleles are associated with autoimmune conditions, such as celiac disease, type 1 diabetes, and rheumatoid arthritis. The ability to identify specific HLA markers linked to these diseases allows for early diagnosis, personalized treatment strategies, and a better understanding of the genetic factors contributing to disease susceptibility. As the prevalence of autoimmune diseases continues to rise, the need for HLA typing in their diagnosis and management is driving the market expansion.

Another notable application of HLA typing is in the field of pharmacogenetics. HLA genes can influence an individual's response to various drugs, including those used in cancer treatment and immunosuppressive therapies post-transplant. Identifying HLA markers relevant to drug metabolism and adverse reactions enables healthcare providers to tailor medication regimens to individual patients, optimizing treatment outcomes and minimizing potential side effects. This broader use of HLA typing is fostering innovation and development in the field, offering additional growth prospects for the market.

Global Expansion of Healthcare Infrastructure

The Global HLA Typing for Transplant Market is experiencing significant growth, in part, due to the global expansion of healthcare infrastructure. As more countries invest in and improve their healthcare systems, there is a growing recognition of the importance of HLA typing in ensuring successful organ and tissue transplantation. This expansion of healthcare infrastructure has led to several key factors driving the market's growth.

as healthcare systems become more sophisticated and accessible, the demand for organ and tissue transplants is on the rise. Access to healthcare facilities and specialized medical professionals allows more patients to seek and undergo transplant procedures, as they gain access to medical evaluations and treatment options. In this context, HLA typing becomes essential, as it ensures compatibility between donors and recipients, reducing the risk of graft rejection or complications and increasing the success rate of these life-saving procedures.

Additionally, the expansion of healthcare infrastructure often includes the establishment of well-equipped and accredited clinical laboratories. These facilities are vital for conducting accurate HLA typing, as they require specialized equipment and highly trained professionals. As healthcare infrastructure grows, so does the capacity to perform HLA typing tests more efficiently and accurately, making it easier for healthcare providers to offer these services to patients in need.

Moreover, in regions with improved healthcare infrastructure, there is an increased emphasis on following regulatory standards and quality assurance measures. Government and regulatory bodies oversee the operations of clinical laboratories and medical facilities, ensuring that they meet strict quality and safety standards. This not only safeguards the accuracy and reliability of HLA typing but also promotes the use of these services in transplantation procedures.

As healthcare infrastructure expands globally, awareness and education around the significance of HLA typing are also on the rise. Healthcare professionals are better informed about the critical role of HLA typing in transplantation success, and patients are more likely to be educated about the procedure's importance. This increased awareness contributes to a greater demand for HLA typing services and products, thus fueling the growth of the Global HLA Typing for Transplant Market.

Key Market Challenges

High Cost of HLA Typing

The Global HLA Typing for Transplant Market is an integral part of the healthcare industry, crucial for the success of organ and tissue transplantation. However, one of the most pressing challenges faced by this market is the high cost associated with HLA typing, which has significant implications for both patients and healthcare providers.

HLA typing is a sophisticated process that involves analyzing specific genetic markers to ensure compatibility between donors and recipients, thereby reducing the risk of graft rejection and complications post-transplant. While the procedure's importance cannot be overstated, its cost often proves to be a prohibitive factor, hindering access to these critical services.

The high cost of HLA typing is influenced by several factors. Firstly, advanced techniques and technologies, such as Next-Generation Sequencing (NGS) and High-Resolution HLA Typing, have become the gold standard for accurate HLA typing. These cutting-edge methods require specialized equipment and highly skilled professionals, contributing to the overall expense. Additionally, the costs of reagents, consumables, and maintenance of high-tech laboratory facilities add to the financial burden.

For healthcare providers and clinical laboratories, the substantial investment required for setting up and maintaining HLA typing facilities can be a deterrent. This, in turn, limits the availability of HLA typing services in some regions and healthcare institutions, preventing many patients from receiving proper evaluation for transplantation. In low- and middle-income countries, the cost barrier can be particularly challenging, exacerbating healthcare disparities and inequities.

Limited Availability of Expertise

The Global HLA Typing for Transplant Market is vital for ensuring the success of organ and tissue transplantation procedures by accurately matching donors and recipients. However, a significant challenge that hinders this market's growth is the limited availability of expertise in the field of HLA typing. HLA typing is a highly specialized area of laboratory medicine, and it demands a skilled workforce and well-equipped facilities to perform accurate and reliable tests.

One of the primary issues contributing to the limited availability of expertise in HLA typing is the complexity of the field itself. Human Leukocyte Antigens (HLAs) are highly

polymorphic, with numerous alleles that can vary from one individual to another. These genetic variations make HLA typing an intricate and challenging process, requiring extensive training and experience to interpret results accurately. The shortage of professionals with the necessary expertise and experience in this field can result in inconclusive test results, delayed diagnoses, and difficulties in finding compatible donors for transplantation.

The scarcity of expertise also extends to the establishment and management of clinical laboratories specialized in HLA typing. Setting up a clinical laboratory for HLA typing involves substantial financial investments in state-of-the-art equipment and maintaining a controlled environment. Moreover, ensuring compliance with stringent quality and safety standards is paramount. The complexity and cost of establishing and operating these specialized facilities can deter many healthcare institutions and laboratories from offering comprehensive HLA typing services.

Key Market Trends

Rise of High-Throughput Platforms

The Global HLA Typing for Transplant Market is experiencing a significant boost from the rise of high-throughput platforms, a trend that is reshaping the landscape of organ and tissue transplantation. High-throughput platforms, which enable the simultaneous analysis of multiple samples in a highly efficient and cost-effective manner, are revolutionizing the HLA typing process.

High-throughput platforms offer several advantages that are driving their increased adoption in the market. One of the most noteworthy benefits is the substantial increase in testing efficiency. These platforms can process a large number of samples in a single run, significantly reducing the time and resources required for HLA typing. This efficiency is a game-changer for clinical laboratories, allowing them to handle larger volumes of samples with greater speed and accuracy.

Moreover, the cost-effectiveness of high-throughput platforms is driving their popularity. By streamlining laboratory workflows and reducing the need for manual intervention, these platforms lower the overall cost per test. This cost-effectiveness benefits both healthcare providers and patients, making HLA typing more accessible and affordable. It is especially important in regions where healthcare resources are limited, and cost considerations play a critical role in patient care.

The rise of high-throughput platforms has also improved the accessibility of HLA typing services. Clinical laboratories that adopt these technologies can expand their testing capabilities, making HLA typing more widely available to patients in need of transplantation evaluations. This trend contributes to reducing waiting times and ensures that a larger number of individuals can receive timely compatibility assessments.

The efficiency of high-throughput platforms is not limited to HLA typing for organ and tissue transplantation; it also plays a crucial role in other applications, such as HLA typing for hematopoietic stem cell transplantation. As the demand for these procedures increases, the ability to process a greater number of samples simultaneously becomes vital..

Increasing Use in Hematopoietic Stem Cell Transplantation

The Global HLA Typing for Transplant Market is witnessing a significant boost in demand due to the increasing use of HLA typing in hematopoietic stem cell transplantation (HSCT). Hematopoietic stem cell transplantation, commonly used in the treatment of various hematological disorders, such as leukemia, lymphoma, and severe aplastic anemia, relies heavily on HLA compatibility between donors and recipients. This application of HLA typing is reshaping the landscape of the transplant market.

In HSCT, the goal is to replace the patient's damaged or malfunctioning bone marrow with healthy stem cells from a compatible donor. HLA compatibility plays a pivotal role in the success of this procedure. The HLA markers on the donor's stem cells must closely match those of the recipient to minimize the risk of graft-versus-host disease (GVHD) and graft failure. The more precise and accurate the HLA typing, the higher the chances of a successful transplant.

As the prevalence of hematological disorders continues to rise, there is a growing demand for HSCT procedures, driving the need for comprehensive HLA typing services. This trend not only emphasizes the importance of HLA compatibility but also stimulates innovation in HLA typing technologies. Laboratories and healthcare providers are increasingly adopting advanced techniques, such as Next-Generation Sequencing (NGS), to achieve more accurate HLA typing, ensuring optimal donor-recipient matches.

The expansion of HLA typing into the realm of hematopoietic stem cell transplantation is having a profound impact on the market. It not only increases the overall volume of HLA typing tests but also diversifies the applications of HLA typing services, further driving

market growth. The broader range of services provided by clinical laboratories and healthcare institutions is meeting the growing demand for compatibility assessments in the context of HSCT, ensuring that patients receive the most accurate and beneficial donor matches.

Segmental Insights

Product & Service Insights

Based on the Product & Service, Reagents & Consumables emerged as the dominant segment in the global market for Global HLA Typing for Transplant Market in 2023. Reagents and consumables are used in every HLA typing test, and they are consumed in large quantities. For each test, multiple reagents and consumables are needed, including primers, probes, PCR reagents, buffers, and other materials. The recurring nature of their use ensures a continuous demand for these products. HLA typing involves various testing methods, such as polymerase chain reaction (PCR), serology, and high-resolution sequencing. Each of these methods requires specific reagents and consumables tailored to the technique. The diversity of testing methods broadens the scope of reagents and consumables utilization. HLA typing tests entail complex sample preparation and analysis processes. Reagents and consumables are integral to these processes, as they facilitate DNA extraction, amplification, and sequencing. Without these materials, accurate HLA typing would not be possible.

Technology Insights

Based on the Technology, Molecular Assay Technologies emerged as the dominant segment in the global market for Global HLA Typing for Transplant Market in 2023. Molecular assay technologies, such as polymerase chain reaction (PCR) and Next-Generation Sequencing (NGS), offer higher precision and accuracy in HLA typing. These methods allow for the detailed analysis of HLA alleles at the DNA level, resulting in more reliable and refined compatibility assessments. In the context of transplantation, where precise matching is critical to minimize the risk of graft rejection and complications, the accuracy of molecular assays is paramount. Human Leukocyte Antigens (HLAs) are highly polymorphic, with numerous alleles and variations. Molecular assay technologies excel in capturing this heterogeneity, enabling comprehensive and precise typing of HLA alleles. Non-molecular assay technologies, such as serological testing or low-resolution techniques, may lack the granularity required to achieve optimal donor-recipient matching.

Regional Insights

North America emerged as the dominant player in the Global HLA Typing for Transplant Market in 2023, holding the largest market share. North America experiences a significant demand for organ and tissue transplants, driven by a large population and a high prevalence of conditions necessitating transplantation. As a result, there is a consistent need for accurate HLA typing to facilitate successful transplantation procedures. North America is a hub for research and development in the field of medical and biotechnology. The region is home to numerous research institutions, pharmaceutical companies, and healthcare organizations that actively contribute to the advancement of HLA typing technologies, leading to a high level of innovation and adoption.

Key Market Players

Thermo Fisher Scientific, Inc.

Illumina, Inc.

Qiagen N.V.

Bio-Rad Laboratories, Inc.

F. Hoffmann-La Roche Ltd

Immucor, Inc.

CareDx, Inc.

Luminex Corporation (Diasorin)

Tbg Diagnostics Limited

Report Scope:

In this report, the Global HLA Typing for Transplant Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

HLA Typing for Transplant Market, By Product & Service:

Reagents & Consumables

Instruments

Software & Services

HLA Typing for Transplant Market, By Technology:

Molecular Assay Technologies

Non-molecular Assay Technologies

HLA Typing for Transplant Market, By Application:

Diagnostic Applications

Antibody Screening

Chimerism Monitoring

Research Applications

Others

HLA Typing for Transplant Market, By Transplant Type:

Solid Organ Transplant

Soft Tissue Transplant

HLA Typing for Transplant Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global HLA Typing for Transplant Market.

Available Customizations:

Global HLA Typing for Transplant Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Product & Service (Reagents & Consumables, Instruments, Software & Services)
 - 4.2.2. By Technology (Molecular Assay Technologies, Non-molecular Assay Technologies)
 - 4.2.3. By Application (Diagnostic Applications, Antibody Screening, Chimerism Monitoring, Research Applications, Others)

- 4.2.4. By Transplant Type (Solid Organ Transplant, Soft Tissue Transplant)
- 4.2.5. By Region
- 4.2.6. By Company (2023)
- 4.3. Market Map
 - 4.3.1. By Product & Service
 - 4.3.2. By Technology
 - 4.3.3. By Application
 - 4.3.4. By Transplant Type
 - 4.3.5. By Region

5. ASIA PACIFIC HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product & Service
 - 5.2.2. By Technology
 - 5.2.3. By Application
 - 5.2.4. By Transplant Type
 - 5.2.5. By Country
- 5.3. Asia Pacific: Country Analysis
 - 5.3.1. China HLA Typing for Transplant Market Outlook
 - 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value
 - 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Product & Service
 - 5.3.1.2.2. By Technology
 - 5.3.1.2.3. By Application
 - 5.3.1.2.4. By Transplant Type
 - 5.3.2. India HLA Typing for Transplant Market Outlook
 - 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
 - 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Product & Service
 - 5.3.2.2.2. By Technology
 - 5.3.2.2.3. By Application
 - 5.3.2.2.4. By Transplant Type
 - 5.3.3. Australia HLA Typing for Transplant Market Outlook
 - 5.3.3.1. Market Size & Forecast

- 5.3.3.1.1. By Value
- 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Product & Service
 - 5.3.3.2.2. By Technology
 - 5.3.3.2.3. By Application
 - 5.3.3.2.4. By Transplant Type
- 5.3.4. Japan HLA Typing for Transplant Market Outlook
 - 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
 - 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Product & Service
 - 5.3.4.2.2. By Technology
 - 5.3.4.2.3. By Application
 - 5.3.4.2.4. By Transplant Type
- 5.3.5. South Korea HLA Typing for Transplant Market Outlook
 - 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
 - 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Product & Service
 - 5.3.5.2.2. By Technology
 - 5.3.5.2.3. By Application
 - 5.3.5.2.4. By Transplant Type

6. EUROPE HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product & Service
 - 6.2.2. By Technology
 - 6.2.3. By Application
 - 6.2.4. By Transplant Type
 - 6.2.5. By Country
- 6.3. Europe: Country Analysis
 - 6.3.1. France HLA Typing for Transplant Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Product & Service

- 6.3.1.2.2. By Technology
- 6.3.1.2.3. By Application
- 6.3.1.2.4. By Transplant Type
- 6.3.2. Germany HLA Typing for Transplant Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Product & Service
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By Application
 - 6.3.2.2.4. By Transplant Type
- 6.3.3. Spain HLA Typing for Transplant Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product & Service
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By Application
 - 6.3.3.2.4. By Transplant Type
- 6.3.4. Italy HLA Typing for Transplant Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Product & Service
 - 6.3.4.2.2. By Technology
 - 6.3.4.2.3. By Application
 - 6.3.4.2.4. By Transplant Type
- 6.3.5. United Kingdom HLA Typing for Transplant Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Product & Service
 - 6.3.5.2.2. By Technology
 - 6.3.5.2.3. By Application
 - 6.3.5.2.4. By Transplant Type

7. NORTH AMERICA HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

7.1. Market Size & Forecast

- 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product & Service
 - 7.2.2. By Technology
 - 7.2.3. By Application
 - 7.2.4. By Transplant Type
 - 7.2.5. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States HLA Typing for Transplant Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Product & Service
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By Application
 - 7.3.1.2.4. By Transplant Type
 - 7.3.2. Mexico HLA Typing for Transplant Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product & Service
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By Application
 - 7.3.2.2.4. By Transplant Type
 - 7.3.3. Canada HLA Typing for Transplant Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Product & Service
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By Application
 - 7.3.3.2.4. By Transplant Type

8. SOUTH AMERICA HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product & Service

- 8.2.2. By Technology
- 8.2.3. By Application
- 8.2.4. By Transplant Type
- 8.2.5. By Country
- 8.3. South America: Country Analysis
 - 8.3.1. Brazil HLA Typing for Transplant Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product & Service
 - 8.3.1.2.2. By Technology
 - 8.3.1.2.3. By Application
 - 8.3.1.2.4. By Transplant Type
 - 8.3.2. Argentina HLA Typing for Transplant Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product & Service
 - 8.3.2.2.2. By Technology
 - 8.3.2.2.3. By Application
 - 8.3.2.2.4. By Transplant Type
 - 8.3.3. Colombia HLA Typing for Transplant Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product & Service
 - 8.3.3.2.2. By Technology
 - 8.3.3.2.3. By Application
 - 8.3.3.2.4. By Transplant Type

9. MIDDLE EAST AND AFRICA HLA TYPING FOR TRANSPLANT MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product & Service
 - 9.2.2. By Technology
 - 9.2.3. By Application

9.2.4. By Transplant Type

9.2.5. By Country

9.3. MEA: Country Analysis

9.3.1. South Africa HLA Typing for Transplant Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Product & Service

9.3.1.2.2. By Technology

9.3.1.2.3. By Application

9.3.1.2.4. By Transplant Type

9.3.2. Saudi Arabia HLA Typing for Transplant Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Product & Service

9.3.2.2.2. By Technology

9.3.2.2.3. By Application

9.3.2.2.4. By Transplant Type

9.3.3. UAE HLA Typing for Transplant Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Product & Service

9.3.3.2.2. By Technology

9.3.3.2.3. By Application

9.3.3.2.4. By Transplant Type

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

11.1. Recent Developments

11.2. Product Launches

11.3. Mergers & Acquisitions

12. GLOBAL HLA TYPING FOR TRANSPLANT MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

- 14.1. Thermo Fisher Scientific, Inc.
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Products & Services
 - 14.1.4. Financials (In case of listed)
 - 14.1.5. Recent Developments
 - 14.1.6. SWOT Analysis
- 14.2. Illumina, Inc.
- 14.3. Qiagen N.V.
- 14.4. Bio-Rad Laboratories, Inc.
- 14.5. F. Hoffmann-La Roche Ltd
- 14.6. Immucor, Inc.
- 14.7. Caredx. Inc.
- 14.8. Luminex Corporation (Diasorin)
- 14.9. Tbg Diagnostics Limited

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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