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HLA Typing for Transplant Market By Technology (Molecular Assay, Non-Molecular Assay) , By Product (Instruments, Reagents & Consumables, Software & Services) By Application (Diagnostic, Research) By Type (Organ Transplant, Tissue) By End User (Independent Reference Laboratories, Hospital & Transplant Center, Other) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

HLA Typing for Transplant Market

The HLA typing for transplant market was valued at $0.9 billion in 2023 and is projected to reach $1.7 billion by 2033, growing at a CAGR of 6.6% from 2024 to 2033.

Human leukocyte antigen (HLA) typing for transplant is an analysis procedure that determines the compatibility between donor and recipient for organ transplant. The proteins transcribed by HLA genes play a critical role in the immune system of humans. The most common forms of organ transplants that involve HLA typing are stem cell and solid organ transplants. A high percentage of HLA matches is critical to ensure that donor or recipient cells do not attack the other post-transplantation.

Rise in the prevalence of chronic conditions such as liver cirrhosis and kidney diseases has fueled organ transplant procedures globally, driving the HLA typing for transplant market. In addition, the availability of effective reimbursement policies for HLA typing and organ transplantation has enhanced their accessibility for patients, augmenting the development of the market. An emerging trend poised to dominate the HLA typing for

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transplant market is the deployment of third-generation sequencing techniques such as single-molecule real-time sequencing and Oxford Nanopore. These techniques improve accuracy, reduce ambiguity, and enhance the assessment of compatibility for transplantation.

However, the high expenditure associated with HLA typing and organ transplantations deters several patients from opting for such treatments, restraining the development of the market. Moreover, the scarcity of available organs reduces the opportunities for transplantations, which impacts the overall demand for HLA typing and hampers the market growth. On the contrary, rise in awareness regarding the necessity of organ donation has upsurged the number of individuals signing up for it post their demise. For instance, a novel annual record was set in the U.S. in 2023 owing to the availability of more than 16,000 deceased organ donors. Therefore, rise in the number of readily available organs for transplant is projected to boost HLA typing for testing the compatibility, opening new avenues for the market.

Segment Review

The HLA typing for transplant market is segmented into technology, product, application, type, end user, and region. On the basis of technology, the market is bifurcated into molecular assay and non-molecular assay. Depending on product, it is divided into instruments, reagents & consumables, and software & services. According to application, it is bifurcated into diagnostic and research. As per type, it is classified into organ transplant and tissue. By end user, it is categorized into independent reference laboratories, hospital & transplant center, and other. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of technology, the molecular assay segment held a high share of the market in 2023.

Depending on product, the reagents & consumables segment acquired a high stake in the market in 2023.

According to application, the diagnostic segment dominated the market in 2023.

As per type, the organ transplant segment was the highest shareholder in 2023.

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By end user, the independent reference laboratories segment accounted for a high share of the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global HLA typing for transplant market include Luminex Corporation, Pacific Biosciences of California, Inc., Abbott Laboratories, Bio-Rad Laboratories, BioReference Laboratories, Qiagen N.V, F. Hoffmann-La Roche Ltd., Illumina Inc., Fujirebio, and BAG Diagnostic GmbH. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Key Market Segments

By Technology

- Molecular Assay
- Non-Molecular Assay

By Product

- Instruments
- Reagents Consumables
- Software Services

By Application

- Diagnostic
- Research

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By Type

- Organ Transplant
- Tissue

By End User

- Independent Reference Laboratories
- Hospital Transplant Center
- Other

By Region

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- U.S.
- Canada
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