

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

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.

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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Regulatory Guidelines

Additional company profiles with specific to client's interest

Average Selling Price Analysis / Price Point Analysis

Expanded list for Company Profiles

Historic market data

Key Market Segments

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

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

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

BAG Diagnostic GmbH

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