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Transplant Diagnostics Market Report by Component (Instrument and Equipment, Reagent and Consumables, Software and Services), Technology (Non-Molecular Assay, Molecular Assay), Organ Type (Kidney, Liver, Heart, Lung, Pancreas, and Others), Application (Pre-Transplant Diagnostics, Post-Transplant Diagnostics), End User (Hospitals and Transplant Centers, Research Laboratories and Academic Institutes, Commercial Service Providers), and Region 2024-2032

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Abstracts

The global transplant diagnostics market size reached US$ 873.7 Million in 2023. Looking forward, IMARC Group expects the market to reach US$ 1,709.0 Million by 2032, exhibiting a growth rate (CAGR) of 7.5% during 2024-2032.

Transplant diagnostics are the basis for histocompatibility and immunogenetics of organ and hematopoietic stem cell transplantations. They assist healthcare professionals in determining the compatibility between potential organ donors and recipients. They increase the chances of organ survival while minimizing serious transplant complications. As a result, they are used in various disciplines, such as pathology, immunogenetics, infectious diseases, molecular diagnostics, therapeutic drug monitoring, and human leukocyte antigens (HLA) typing and monitoring.

Transplant Diagnostics Market Trends:

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The growing prevalence of acute and chronic diseases on account of the increasing consumption of processed food products and the escalating number of individuals that smoke tobacco products and consume alcohol is causing a significant rise in the number of organ failure cases. This, in confluence with the growing number of blood donors, represents one of the primary factors driving the demand for transplant diagnostics worldwide to ensure donor-recipient compatibility and improve the quality of life of transplant patients. Moreover, as older people are more prone to health problems and organ failure, the rising geriatric population across the globe is contributing to market growth. The escalating number of severe road accidents or collisions is also influencing the demand for organ transplantation and its diagnostics. Apart from this, manufacturers are offering a comprehensive range of antibody detection products, laboratory instrumentation, and computer software. These products can be utilized to simplify and automate testing procedures and final test evaluations, which is creating a favorable market outlook. Furthermore, the increasing expenditure in the healthcare sector by governments of several countries is impelling the market growth. Furthermore, several healthcare firms are focusing on developing innovative, high-quality HLA products for clinical and research applications, which, in turn, is projected to drive the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global transplant diagnostics market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, technology, organ type, application and end user.

Breakup by Component:

Instrument and Equipment

Reagent and Consumables

Software and Services

Breakup by Technology:

Non-Molecular Assay

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Serological Assay

Mixed Lymphocyte Culture

Molecular Assay

PC-based

Sequencing-based

Breakup by Organ Type:

Kidney

Liver

Heart

Lung

Pancreas

Others

Breakup by Application:

Pre-Transplant Diagnostics

Post-Transplant Diagnostics

Breakup by End User:

Hospitals and Transplant Centers

Research Laboratories and Academic Institutes

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Commercial Service Providers

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, Becton Dickinson and Company, bioM?rieux SA, Bio-Rad Laboratories Inc., F. Hoffmann-La Roche AG, Hologic Inc, Illumina Inc., Immucor Inc. (IVD Holdings Inc.), Merck KGaA, Qiagen N.V. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global transplant diagnostics market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global transplant diagnostics market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the organ type?

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What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global transplant diagnostics market and who are the key players?

What is the degree of competition in the industry?

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Contents

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+357 96 030922
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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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