

# **Human Identification Market Report by Product & Service (Instruments, Assay Kits and Reagents, Software and Services), Technology (Polymerase Chain Reaction (PCR), Next Generation Sequencing (NGS), Nucleic Acid Purification and Extraction, Capillary Electrophoresis, Rapid DNA Analysis, and Others), Application (Forensic Applications, Paternity Testing, and Others), End User (Forensic Laboratories, Research Centers, Academic and Government Institutes), and Region 2024-2032**

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## **Abstracts**

The global human identification market size reached US\$ 1.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 4.9 Billion by 2032, exhibiting a growth rate (CAGR) of 10.7% during 2024-2032.

Human identification refers to a technique used to analyze the deoxyribonucleic acid (DNA) sample for the identification of individuals and forensic investigation. It consists of body part detectors that assist in detecting lips, face, heads, shoulders, fingerprints, and palms. It also utilizes next-generation sequencing (NGS), capillary electrophoresis, rapid DNA analysis, polymerase chain reaction (PCR), nucleic acid purification, and extraction technologies. Human identification is widely used for criminal identification, overall analytics of human traits, identifying missing persons, casualties of war, disaster victims, and cause and manner of death. It also assists in tracking individual criminal record, identifying traces, and pardoning decisions.

### Human Identification Market Trends:

The increasing demand for DNA analysis on account of rising criminal rates across the globe is one of the key factors driving the growth of the market. In line with this, human identification is widely used in forensics, disaster victim identification, and anthropology for eliminating wrongly associated individuals and redirecting resources to more viable avenues of investigation. Moreover, various technological advancements, such as the integration of artificial intelligence (AI) and machine learning (ML), that assists in mapping and recording facial features, obtaining high-quality source samples, and improving system efficiency, are providing an impetus to the market growth. Additionally, recent developments in sequencing technology have enhanced the utilization of capillary electrophoresis (CE) and massively parallel sequencing (MPS) methods for human identification in forensic and paternity testing labs, which, in turn, is positively impacting the market growth. Apart from this, extensive research and development (R&D) activities and the implementation of various government policies to provide funding for forensic programs are creating a positive outlook for the market.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global human identification market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product & service, technology, application and end user.

### Breakup by Product & Service:

Instruments

Assay Kits and Reagents

Software and Services

### Breakup by Technology:

Polymerase Chain Reaction (PCR)

Next Generation Sequencing (NGS)

Nucleic Acid Purification and Extraction

Capillary Electrophoresis

Rapid DNA Analysis

Others

### Breakup by Application:

Forensic Applications  
Paternity Testing  
Others

Breakup by End User:

Forensic Laboratories  
Research Centers, Academic and Government Institutes

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, Agilent Technologies Inc., Bio-Rad

Laboratories Inc., Eurofins Scientific, Hamilton Company, Illumina Inc., Laboratory Corporation of America Holdings, PerkinElmer Inc., Promega Corporation, Qiagen N.V., Siemens AG and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

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

What has been the impact of COVID-19 on the global human identification market?

What are the key regional markets?

What is the breakup of the market based on the product & service?

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

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 human identification market and who are the key players?

What is the degree of competition in the industry?

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