

Human Identification Market by Product [Consumables (Kits & Reagents), Instruments, Software], Technology (PCR, Capillary Electrophoresis, NGS, Microarray, Rapid DNA Analysis), Application (Forensics, Paternity Testing), End User - Global Forecast to 2031

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Report description:

The global human identification market is projected to reach USD 1.69 billion by 2031 from USD 1.01 billion in 2026, at a CAGR of 10.9% from 2026 to 2031. The expansion of the global human identification market has been fueled by rising forensic case backlogs and databank expansions, as well as the adoption of rapid DNA testing in booking stations.

<https://mnmimg.marketsandmarkets.com/Images/human-identification-market-img-overview.webp>

In 2025, the DNA amplification kits & reagents segment held the largest share of the global human identification consumables market.

The consumables market is segmented into DNA amplification kits & reagents, rapid DNA analysis kits & reagents, DNA quantification kits & reagents, and DNA extraction kits & reagents. The DNA amplification kits & reagents segment held the largest share of the consumables market due to their central role in STR-based DNA profiling workflows, which remain the gold standard in forensic and paternity testing applications. These kits are required for every DNA sample processed, making them the most frequently used consumables across laboratories. Additionally, the large share is driven by the widespread adoption of validated STR kits in national DNA databases (such as CODIS), the increasing volume of forensic casework, and the need for high-throughput, reliable DNA amplification across various sample types. Compared to other consumables, amplification kits carry a higher per-test value and recurring demand, further contributing to their leading market position.

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"The sample preparation & extraction segment accounted for the largest share of the global human identification instruments market in 2025."

Within the instruments segment, the global human identification market is divided into sample preparation & extraction systems, DNA amplification systems, DNA analysis systems, and DNA quantification systems. In 2025, sample preparation & extraction systems accounted for the largest share of the global human identification instruments market. The dominance of this segment is mainly due to the critical role of DNA extraction as the first and essential step in all DNA analysis workflows, where high-quality and contaminant-free DNA is required for accurate downstream results.

The APAC registered the highest CAGR from 2026 to 2031.

The human identification market is segmented into North America, Europe, Asia Pacific, Latin America, the Middle East, and Africa. The APAC region is projected to grow at the highest CAGR during the forecast period. This surge is driven by the rapid expansion of healthcare infrastructure in China, India, and Japan, alongside rising crime rates, an increasing number of forensic laboratories, and the implementation of awareness campaigns and conferences on human identification and forensic sciences.

The primary interviews conducted for this report can be categorized as follows:

-□By Respondent: Supply Side (70%) and Demand Side (30%)

-□By Designation: Managers (45%), CXOs & Directors (30%), and Executives (25%)

-□By Region: North America (40%), Europe (25%), the Asia Pacific (20%), Latin America (10%), and the Middle East & Africa (5%)

List of Key Companies Profiled in the Report:

Key players in the global human identification market include Thermo Fisher Scientific Inc. (US), QIAGEN N.V. (Netherlands), Promega Corporation (US), Hamilton Company (US), ANDE Corporation (US), FUJIFILM Wako Pure Chemical Corporation (Japan), AutoGen Inc. (US), InnoGenomics Technologies, LLC (US), Oxford Nanopore Technologies Plc (UK), Bode Cellmark Forensics Inc. (US), Bio-Rad Laboratories, Inc. (US), ZEISS (Germany), Cybergentics, Inc. (US), MACHEREY-NAGEL GmbH & Co. KG (Germany), and BIOTYPE GmbH (Germany).

Research Coverage:

This research report categorizes the global human identification market by product (consumables, instruments, and software), technology (polymerase chain reaction, capillary electrophoresis, next-generation sequencing, microarrays, and rapid DNA analysis), application (forensic applications, paternity testing, and other applications), end user (forensic laboratories, research centers and academic & government institutes, and other end users), and region (North America, Europe, Asia Pacific, Latin America, the Middle East, and Africa).

The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the human identification market. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products, solutions, key strategies, collaborations, partnerships, and agreements.

Key Benefits of Buying the Report:

The report will help market leaders and new entrants by providing the closest approximations of revenue for the overall human identification market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their businesses and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide information on key drivers, restraints, opportunities, and challenges.

The report provides insights into the following pointers:

-□Analysis of key drivers [rising forensic case backlog and expansion of DNA databases, adoption of rapid DNA technologies in booking stations, transition toward NGS in complex casework & DVI, and increased accreditation & quality standards (ISO 17025)], restraints (government budget constraints & forensic funding, slow replacement cycle of CE & PCR systems, price pressure on STR kits, and limited rapid DNA regulatory acceptance in some regions), opportunities (probabilistic genotyping adoption, automation

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of extraction workflows, NGS panel expansion for kinship & forensic genealogy, and emerging market forensic infrastructure build-out), and challenges (declining reagent usage due to direct-PCR kits, migration from CE to NGS reduces CE dominance, legal challenges/privacy concerns, and high cost of NGS validation & accreditation).

-□Product Development/Innovation: Detailed insights on upcoming technologies and research & development activities in the global human identification market.

-□Market Development: Comprehensive information about lucrative markets. The report analyzes the market across varied regions.

-□Market Diversification: Exhaustive information about untapped geographies, recent developments, and investments in the global human identification market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players. A detailed analysis of the key industry players has been done to provide insights into their key strategies, product launches/approvals, acquisitions, partnerships, agreements, collaborations, other recent developments, investments & funding activities, brand/product comparative analysis, and vendor valuation & financial metrics of the global human identification market.

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