

DNA Forensics Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global DNA Forensics Market was valued at USD 3.5 billion in 2024 and is projected to grow at a 5.4% CAGR between 2025 and 2034. DNA forensics helps in legal settings by using genetic material for identification purposes, such as criminal investigations, paternity testing, and disaster victim identification.

The market is categorized by solution types, including kits, analyzers, sequencers, software, and consumables. The consumables segment leads the market, contributing the largest share of 37.7% in 2024. This is largely due to the advancements in Next-Generation Sequencing and other technologies, which have enhanced the speed and precision of DNA analysis. These improvements have led to an increased demand for consumables essential for these processes.

Method-wise, the DNA forensics market is divided into capillary electrophoresis (CE), next-generation sequencing (NGS), polymerase chain reaction (PCR) amplification, and other methods. Capillary electrophoresis (CE) holds the largest share, generating a revenue of USD 1.2 billion in 2024. CE is favored for its high-resolution separation of DNA fragments, offering precise results critical for forensic applications. Its ability to handle degraded or mixed DNA samples is a major advantage, making it indispensable in forensic laboratories. The continued investment in DNA forensics technology by law enforcement agencies, aimed at solving cold cases and addressing testing backlogs, has further driven the demand for CE, as it delivers rapid and reliable DNA analysis.

U.S. DNA forensics market is poised for significant growth, with projections reaching USD 2.4 billion by 2034. The U.S. government has been investing heavily in upgrading forensic technology and expanding laboratory facilities to support enhanced criminal investigations. Such investments are expected to accelerate the adoption of cutting-

edge DNA forensic technologies across the country. Additionally, initiatives focused on resolving cold cases and minimizing backlogs in forensic labs are intensifying the demand for DNA forensics solutions. Law enforcement agencies increasingly prioritize DNA evidence as a tool to revisit unsolved cases, further contributing to market growth.

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