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DNA Analysis in The Government Sector Market by Type (Restriction Fragment Length Polymorphism (RFLP), Short Tandem Repeat (STR) Analysis, Single Nucleotide Polymorphism (SNP) Analysis, and Others), Application (Forensics, Law Enforcement), and Region 2023-2028

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Abstracts

The global DNA analysis in the government sector market size reached US$ 1.68 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 3.45 Billion by 2028, exhibiting a growth rate (CAGR) of 12.80% during 2023-2028. The escalating demand for security measures and counterterrorism efforts, a considerable rise in the number of criminal activities, and continual advancements in DNA analysis technologies represent some of the key factors driving the market.

DNA analysis is a forensic technique used in the government sector to identify individuals based on their DNA characteristics, involving the examination and analysis of DNA samples to extract valuable information for investigative, identification, or regulatory purposes. DNA analysis in the government sector encompasses multiple steps, such as sample collection, extraction, amplification, profiling, and data analysis, and the comparison of specific DNA regions to establish a distinctive genetic profile. By utilizing several advanced techniques to determine and compare specific regions of the DNA of an individual, the analysis establishes unique genetic profiles and accurate identification. Some of the most common techniques in DNA analysis include polymerase chain reaction (PCR), restriction fragment length polymorphism (RFLP), short tandem repeat (STR) analysis, and single nucleotide polymorphism (SNP) analysis. As a result, it finds extensive applications in forensic investigations, missing person identification, disaster victim identification, archaeological research, studying

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genetic links to diseases, and paternity and kinship testing.

DNA Analysis in The Government Sector Market Trends:
The global market is primarily driven by the escalating demand for security measures and counterterrorism efforts on major spots of a particular region, such as airports, railways, and borders. In line with this, continual advancements in DNA analysis technologies, such as such as next-generation sequencing (NGS) providing accurate results from degraded or trace amounts of DNA, is fueling the market. Moreover, the increasing availability of DNA databases, algorithms and software systems facilitating large volumes of DNA data sharing among national and international law enforcement agencies is providing an impetus to the market. In addition to this, the rising prevalence of chronic oncology and various infectious diseases are creating lucrative growth opportunities in the market. The market is further driven by the implementation of favorable regulatory initiatives, along with growing government investments in DNA analysis infrastructure. Apart from this, the rising integration of DNA analysis with other technologies, such as biometrics and surveillance systems, is creating a positive market outlook. Some of the other factors contributing to the market include rapid utilization of cloud-based biometrics, extensive research and development (R&D) activities conducted by key players, augmenting demand for forensic backlog reduction, and rising healthcare expenditure.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global DNA analysis in the government sector market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on type and application.

Type Insights:

Restriction Fragment Length Polymorphism (RFLP)
Short Tandem Repeat (STR) Analysis
Single Nucleotide Polymorphism (SNP) Analysis
Others

The report has provided a detailed breakup and analysis of the DNA analysis in the government sector market based on the type. This includes Restriction Fragment Length Polymorphism (RFLP), Short Tandem Repeat (STR) Analysis, Single Nucleotide Polymorphism (SNP) Analysis, and others.

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Application Insights:

Forensics
Law Enforcement

A detailed breakup and analysis of the DNA analysis in the government sector market based on the application has also been provided in the report. This includes forensics and law enforcement.

Regional Insights:

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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany,

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France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for DNA analysis in the government sector. Some of the factors driving the North America DNA analysis in the government sector market included continual technological advancements in DNA analysis technologies, rising crime rates, extensive research and development (R&D) activities conducted by key players, etc.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global DNA analysis in the government sector market. Detailed profiles of all major companies have also been provided. Some of the companies covered include NEC Corporation, Ultra Electronics Holdings (Cobham Limited), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global DNA analysis in the government sector market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global DNA analysis in the government sector market?
What is the impact of each driver, restraint, and opportunity on the global DNA analysis in the government sector market?
What are the key regional markets?
Which countries represent the most attractive DNA analysis in the government sector market?
What is the breakup of the market based on the type?
Which is the most attractive type in the DNA analysis in the government sector market?
What is the breakup of the market based on the application?
Which is the most attractive application in the DNA analysis in the government sector market?
What is the competitive structure of the global DNA analysis in the government sector market?
Who are the key players/companies in the global DNA analysis in the government sector market?

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