

North America DNA Extraction, Isolation, and Purification Market Forecast to 2030 - Regional Analysis - by Type (Kits, Instruments, and Reagents), Method (Chemical Method and Physical Method), Sample Type (Blood, Body Fluids, and Others), Source (Genomic DNA and Microbial DNA), Application [PCR Test, Next Generation Sequencing (NGS), Microarray, and Others], and End User (Hospitals, Diagnostic Centers and Research Laboratories, Pharmaceutical and Biopharmaceutical Companies, Contract Research Organizations, and Others)

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Abstracts

The North America DNA extraction, isolation, and purification market was valued at US\$ 1,734.31 million in 2022 and is expected to reach US\$ 3,429.95 million by 2030; it is estimated to grow at a CAGR of 8.9% from 2022 to 2030.

Emerging Applications of Extracted and Purified DNA Fuels the North America DNA Extraction, Isolation, and Purification Market

The DNA extraction technique used to isolate DNA from biological samples plays a pivotal role in biotechnology applications, ranging from fundamental research to routine diagnostic and therapeutic decision-making. The extracted, isolated, and purified DNA can be used to study the genetic causes and management of various diseases. DNA

extraction, isolation, and purification procedures are commonly used in forensic science studies, genome sequencing, spotting environmental bacteria and viruses, and establishing paternity. Furthermore, ancestry tracking, medical tests, genetic engineering, etc., are a few more application areas of the DNA extraction procedures.

In medicine, DNA can serve as a foundation for diagnosing genetic diseases. It is also helping to derive pharmaceutical products such as hormones and vaccines, and predictive genetic testing for risk assessment and the use of targeted screening and early prevention strategies.

The DNA extracted from patients can be used in the diagnosis of genetic diseases such as sickle cell anemia, cystic fibrosis, Huntington's disease, and Down syndrome. Thus, an increase in patient population worldwide contributes to the demand for the DNA extraction and purification kits, and related products. Additionally, DNA is used in vaccine development and manufacturing (DNA/subunit vaccines). For example, Hepatitis B vaccine is prepared using recombinant DNA technology. Thus, an upsurge in the use of DNA extraction, isolation, and purification processes in various applications drives the growth of market.

North America DNA Extraction, Isolation, and Purification Market Overview

The North America DNA extraction, isolation, and purification market has been segmented into the US, Canada, and Mexico. The growing demand for advanced diagnostic tools in molecular genetics and cytogenetics, and the rising prevalence of genetic disorders and cancer fuel the market growth in this region. Data published by the American Cancer Society states that the US recorded ~1.9 million new cancer cases in 2022, while 609,360 cancer deaths were recorded. The increasing focus on personalized medicine and targeted therapies to treat different medical conditions has led to an upsurge in research activities involving genetic analysis, bolstering the demand for DNA extraction and purification products. Further, DNA extraction procedures have improved with advancements such as automation and high-throughput techniques. Advanced methods allow more precise and effective isolation and quantification of DNA, revealing important details about the genetic alterations occurring in cancer cells. As a result, laboratories and medical institutions are better equipped to handle larger volumes of samples and generate precise results efficiently. According to the Canadian Cancer Society 2022, ~30,000 Canadians suffered from lung or bronchus cancer in 2022, accounting for 13% of all new cancer cases. Therefore, demand for DNA extraction is increasing since the extracted material is used to identify chromosomal abnormalities to diagnose various types of cancer. These systems enable

healthcare professionals to detect genetic anomalies early, allowing for more targeted and effective treatment strategies. The rising prevalence of breast cancer in Mexico has highlighted the importance of accurate genetic analysis, further bolstering the demand for DNA extraction. According to the World Health Organization (WHO), breast cancer is a leading cause of death in Mexico accounting for ~15% of new breast cancer cases were found in Mexico in 2020. Early detection and precise characterization of genetic anomalies are essential for tailoring effective treatment strategies. Thus, the rising prevalence of genetic disorders significantly driving the DNA extraction, isolation, and purification market in North America.

North America DNA Extraction, Isolation, and Purification Market Revenue and Forecast to 2030 (US\$ Million)

North America DNA Extraction, Isolation, and Purification Market Segmentation

The North America DNA extraction, isolation, and purification market is segmented based on type, method, sample type, source, application, end user, and country.

Based on type, the North America DNA extraction, isolation, and purification market is categorized into kits, instrument, and reagent. The kits segment held the largest North America DNA extraction, isolation, and purification market share in 2022.

In terms of method, the North America DNA extraction, isolation, and purification market is bifurcated into chemical method and physical method. The chemical method segment held a larger North America DNA extraction, isolation, and purification market share in 2022. The chemical method is further subsegmented into phenol chloroform, silica gel, proteinase, and others. The physical method is further subsegmented into magnetic bead and paper.

By sample type, the North America DNA extraction, isolation, and purification market is segmented into blood, body fluid, and others. The blood segment held the largest North America DNA extraction, isolation, and purification market share in 2022.

By source, the North America DNA extraction, isolation, and purification market is segmented into genomic and microbial. The genomic segment held a larger North America DNA extraction, isolation, and purification market share in 2022. The microbial segment is further subsegmented into bacteria and virus.

Based on application, the North America DNA extraction, isolation, and purification

market is categorized into PCR test, next generation sequencing, micro array, and others. The next generation sequencing segment held the largest North America DNA extraction, isolation, and purification market share in 2022. The PCR test segment is further subsegmented into qPCR, multiplex PCR, 16S PCR, and others.

By end user, the North America DNA extraction, isolation, and purification market is segmented into diagnostic center and research laboratories, pharmaceutical and biopharmaceutical companies, CROs, and others. The diagnostic center and research laboratories segment held the largest North America DNA extraction, isolation, and purification market share in 2022.

Based on country, the North America DNA extraction, isolation, and purification market is categorized into the US, Canada, and Mexico. The US dominated the North America DNA extraction, isolation, and purification market in 2022.

Agilent Technologies Inc, Bio-Rad Laboratories Inc, Danaher Corp, F. Hoffmann-La Roche Ltd, GE HealthCare Technologies Inc, Illumina Inc, Merck KGaA, Qiagen NV, Takara Bio Inc, and Thermo Fisher Scientific Inc are some of the leading companies operating in the North America DNA extraction, isolation, and purification market.

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