

Middle East & Africa 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 Middle East & Africa DNA extraction, isolation, and purification market was valued at US\$ 88.41 million in 2022 and is expected to reach US\$ 166.09 million by 2030; it is estimated to grow at a CAGR of 8.2% from 2022 to 2030.

Technological Advancements Associated with Instruments Fuels the Middle East & Africa DNA Extraction, Isolation, and Purification Market

The rapidly progressing automation technology has resulted in the development of automated nucleic acid extraction systems. An automated nucleic acid extraction process can benefit through its ability to decrease labor costs, increase worker safety, and improve result reproducibility and quality. Moreover, the ongoing efforts toward the



development of a portable, miniature extraction system or an all-in-one biomolecule extraction system would introduce new trends in the DNA extraction, isolation, and purification market in the coming years. For instance, Promega Corporation a one of the leading players offers Maxwell a complete robotic nucleic acid purification system. Moreover, robotic automation in laboratories would support the trend of miniaturization. Smaller systems with lower throughput are more suitable for clinical laboratory workload. Additionally, robotic automation systems are relatively inexpensive to implement, improving turnaround times and lowering labor costs.

Middle East & Africa DNA Extraction, Isolation, and Purification Market Overview

The prevalence of cancer and genetic disorders in the UAE has highlighted the importance of accurate genetic analysis. According to a study published by Lancet Public Health in 2022, the UAE and other Gulf countries are likely to report the highest increase in dementia cases over the next 30 years. Additionally, by 2050, the cases of dementia in the UAE, Qatar, and Bahrain would surge at rates of 1.79%, 1.92%, and 1.08%. As a result, the demand for DNA kits and instruments rises in the region due to their crucial role in the early detection of genetic anomalies and guidance for personalized treatment strategies.

The rising elderly population propels the prevalence of age-related diseases in South Africa. According to IARC, South Africa had a significant incidence age-standardized rate of 193.2 cancer cases per 100,000, with 100,464 new cases in 2020. A study from the NCBI on the 'Epidemiological Study of Risk Factors for Lung Cancer in KwaZulu-Natal, South Africa' states that the country has high lung cancer mortality, with the age-standardized incidence rate of 8.37/100,000 among males and 3.57/100,000 among females. Thus, the high prevalence of cancer in South Africa fuels the demand for DNA extraction for cancer diagnosis.

An upsurge in cancer cases in countries such as Israel, Egypt, and Lebanon propel the demand for medical disease diagnosis. According to the Israeli government, ~27,000 are diagnosed with invasive cancer yearly. The Times of Israel reported the geriatric population (aged 75+) would increase by 48% in the country by 2030, creating an urgent need to bolster the health system. Therefore, increasing cancer prevalence, genetic disorder incidences, and rising elderly population fuel the demand for enhanced diagnosis equipment in the Middle East & Africa, in turn, fueling the DNA extraction, isolation, and purification market growth in the region.

Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue and



Forecast to 2030 (US\$ Million)

Middle East & Africa DNA Extraction, Isolation, and Purification Market Segmentation

The Middle East & Africa DNA extraction, isolation, and purification market is segmented based on type, method, sample type, source, application, end user, and country.

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

In terms of method, the Middle East & Africa DNA extraction, isolation, and purification market is bifurcated into chemical method and physical method. The chemical method segment held a larger Middle East & Africa 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 Middle East & Africa DNA extraction, isolation, and purification market is segmented into blood, body fluid, and others. The blood segment held the largest Middle East & Africa DNA extraction, isolation, and purification market share in 2022.

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

Based on application, the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa DNA extraction, isolation, and purification market share in 2022.

Based on country, the Middle East & Africa DNA extraction, isolation, and purification market is categorized into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. Saudi Arabia dominated the Middle East & Africa DNA extraction, isolation, and purification market in 2022.

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 Middle East & Africa DNA extraction, isolation, and purification market.



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