

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.



# Contents

### 1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

#### 2. EXECUTIVE SUMMARY

2.1 Key Insights

2.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market, Market attractiveness

#### 3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

# 4. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - KEY INDUSTRY DYNAMICS

- 4.1 Market Drivers
- 4.1.1 Emerging Applications of Extracted and Purified DNA
- 4.1.2 Rising R&D in Genomics
- 4.2 Market Restraints
- 4.2.1 High Cost of Process and Need for Highly Skilled Workforces
- 4.3 Market Opportunities
- 4.3.1 New Product Launches and Approvals
- 4.4 Future Trends
- 4.4.1 Technological Advancements Associated with Instruments
- 4.5 Impact Analysis

# 5. DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS

5.1 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue (US\$ Mn), 2022 - 2030

Middle East & Africa DNA Extraction, Isolation, and Purification Market Forecast to 2030 - Regional Analysis -...



## 6. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - BY TYPE.

6.1 Overview

6.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Type 2022 & 2030 (%)

6.3 Kits

6.3.1 Overview

6.3.2 Kits: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

6.4 Instrument

6.4.1 Overview

6.4.2 Instrument: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

6.5 Reagent

6.5.1 Overview

6.5.2 Reagent: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

## 7. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - BY METHOD.

7.1 Overview

7.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Method 2022 & 2030 (%)

7.3 Chemical Methods

7.3.1 Overview

7.3.2 Chemical Methods: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.3.2.1 Phenol Chloroform Method

7.3.2.1.1 Overview

7.3.2.2 Phenol Chloroform Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.3.2.3 Silica Gel Method

7.3.2.3.1 Overview

7.3.2.3.2 Silica Gel Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.3.2.4 Proteinase K Method

7.3.2.4.1 Overview



7.3.2.4.2 Proteinase K Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.3.2.5 Others

7.3.2.5.1 Overview

7.3.2.5.2 Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.4 Physical Methods

7.4.1 Overview

7.4.2 Physical Methods: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.4.2.1 Magnetic Bead Method

7.4.2.1.1 Overview

7.4.2.1.2 Magnetic Bead Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

7.4.2.2 Paper DNA Method

7.4.2.2.1 Overview

7.4.2.2.2 Paper DNA Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

# 8. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - BY SAMPLE TYPE

8.1 Overview

8.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Sample Type 2022 & 2030 (%)

8.3 Blood

8.3.1 Overview

8.3.2 Blood: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

8.4 Body Fluids

8.4.1 Overview

8.4.2 Body Fluids: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

# 9. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION

Middle East & Africa DNA Extraction, Isolation, and Purification Market Forecast to 2030 - Regional Analysis -...



#### MARKET - REVENUE AND FORECAST TO 2030 - BY SOURCE.

9.1 Overview

9.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Source 2022 & 2030 (%)

9.3 Genomic DNA

9.3.1 Overview

9.3.2 Genomic DNA: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

9.4 Microbial DNA

9.4.1 Overview

9.4.2 Microbial DNA: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

9.4.2.1 Bacterial

9.4.2.1.1 Overview

9.4.2.1.2 Bacterial: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

9.4.2.2 Virus

9.4.2.2.1 Overview

9.4.2.2.2 Virus: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

# 10. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - BY APPLICATION.

10.1 Overview

10.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Application 2022 & 2030 (%)

10.3 PCR Test

10.3.1 Overview

10.3.2 PCR Test: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.3.2.1 qPCR

10.3.2.1.1 Overview

10.3.2.1.2 qPCR: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.3.2.2 Multiplex PCR

10.3.2.2.1 Overview

10.3.2.2.2 Multiplex PCR: Middle East & Africa DNA Extraction, Isolation, and



Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.3.2.3S PCR

10.3.2.3.1 Overview

10.3.2.3.2S PCR: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.3.2.4 Others

10.3.2.4.1 Overview

10.3.2.4.2 Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.4 Next Generation Sequencing (NGS)

10.4.1 Overview

10.4.2 Next Generation Sequencing (NGS): Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.5 Microarray

10.5.1 Overview

10.5.2 Microarray: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

10.6 Others

10.6.1 Overview

10.6.2 Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

# 11. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - BY END USER

11.1 Overview

11.2 Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by End User 2022 & 2030 (%)

11.3 Hospitals, Diagnostic Center, and Research Laboratories

11.3.1 Overview

11.3.2 Hospitals Diagnostic Center and Research Laboratories: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

11.4 Pharmaceutical and Biopharmaceutical Companies

11.4.1 Overview

11.4.2 Pharmaceutical and Biopharmaceutical Companies: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

11.5 CROs



#### 11.5.1 Overview

11.5.2 CROs: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

11.6 Others

11.6.1 Overview

11.6.2 Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million)

# 12. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET - REVENUE AND FORECAST TO 2030 - COUNTRY ANALYSIS

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

12.1.1 Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Country

12.1.1.1 Saudi Arabia: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

12.1.1.1 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by Type, 2020-2030 (US\$ Million)

12.1.1.1.2 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by Method, 2020-2030 (US\$ Million)

12.1.1.1.2.1 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.1.2.2 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.1.3 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by Sample Type, 2020-2030 (US\$ Million)

12.1.1.1.4 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by Source, 2020-2030 (US\$ Million)

12.1.1.4.1 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source, 2020-2030 (US\$ Million)

12.1.1.1.5 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by Application, 2020-2030 (US\$ Million)

12.1.1.5.1 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application, 2020-2030 (US\$ Million)

12.1.1.1.6 Saudi Arabia: DNA Extraction, Isolation, and Purification Market, by End User, 2020-2030 (US\$ Million)

12.1.1.2 UAE: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

12.1.1.2.1 UAE: DNA Extraction, Isolation, and Purification Market, by Type,



2020-2030 (US\$ Million)

12.1.1.2.2 UAE: DNA Extraction, Isolation, and Purification Market, by Method, 2020-2030 (US\$ Million)

12.1.1.2.2.1 UAE: DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.2.2.2 UAE: DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.2.3 UAE: DNA Extraction, Isolation, and Purification Market, by Sample Type, 2020-2030 (US\$ Million)

12.1.1.2.4 UAE: DNA Extraction, Isolation, and Purification Market, by Source, 2020-2030 (US\$ Million)

12.1.1.2.4.1 UAE: DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source, 2020-2030 (US\$ Million)

12.1.1.2.5 UAE: DNA Extraction, Isolation, and Purification Market, by Application, 2020-2030 (US\$ Million)

12.1.1.2.5.1 UAE: DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application, 2020-2030 (US\$ Million)

12.1.1.2.6 UAE: DNA Extraction, Isolation, and Purification Market, by End User, 2020-2030 (US\$ Million)

12.1.1.3 South Africa: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

12.1.1.3.1 South Africa: DNA Extraction, Isolation, and Purification Market, by Type, 2020-2030 (US\$ Million)

12.1.1.3.2 South Africa: DNA Extraction, Isolation, and Purification Market, by Method, 2020-2030 (US\$ Million)

12.1.1.3.2.1 South Africa: DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.3.2.2 South Africa: DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.3.3 South Africa: DNA Extraction, Isolation, and Purification Market, by Sample Type, 2020-2030 (US\$ Million)

12.1.1.3.4 South Africa: DNA Extraction, Isolation, and Purification Market, by Source, 2020-2030 (US\$ Million)

12.1.1.3.4.1 South Africa: DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source, 2020-2030 (US\$ Million)

12.1.1.3.5 South Africa: DNA Extraction, Isolation, and Purification Market, by Application, 2020-2030 (US\$ Million)

12.1.1.3.5.1 South Africa: DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application, 2020-2030 (US\$ Million)



12.1.1.3.6 South Africa: DNA Extraction, Isolation, and Purification Market, by End User, 2020-2030 (US\$ Million)

12.1.1.4 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

12.1.1.4.1 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Type, 2020-2030 (US\$ Million)

12.1.1.4.2 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Method, 2020-2030 (US\$ Million)

12.1.1.4.2.1 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.4.2.2 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method, 2020-2030 (US\$ Million)

12.1.1.4.3 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Sample Type, 2020-2030 (US\$ Million)

12.1.1.4.4 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Source, 2020-2030 (US\$ Million)

12.1.1.4.4.1 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source, 2020-2030 (US\$ Million)

12.1.1.4.5 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Application, 2020-2030 (US\$ Million)

12.1.1.4.5.1 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application, 2020-2030 (US\$ Million)

12.1.1.4.6 Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by End User, 2020-2030 (US\$ Million)

# 13. MIDDLE EAST & AFRICA DNA EXTRACTION, ISOLATION, AND PURIFICATION MARKET-INDUSTRY LANDSCAPE

13.1 Overview13.2 Organic Growth Strategies13.2.1 Overview13.3 Inorganic Growth Strategies13.3.1 Overview

## **14. COMPANY PROFILES**

14.1 Bio-Rad Laboratories Inc

- 14.1.1 Key Facts
- 14.1.2 Business Description



- 14.1.3 Products and Services
- 14.1.4 Financial Overview
- 14.1.5 SWOT Analysis
- 14.1.6 Key Developments
- 14.2 Danaher Corp
  - 14.2.1 Key Facts
  - 14.2.2 Business Description
  - 14.2.3 Products and Services
  - 14.2.4 Financial Overview
  - 14.2.5 SWOT Analysis
- 14.2.6 Key Developments
- 14.3 GE HealthCare Technologies Inc
  - 14.3.1 Key Facts
  - 14.3.2 Business Description
  - 14.3.3 Products and Services
  - 14.3.4 Financial Overview
  - 14.3.5 SWOT Analysis
- 14.3.6 Key Developments
- 14.4 F. Hoffmann-La Roche Ltd
  - 14.4.1 Key Facts
  - 14.4.2 Business Description
  - 14.4.3 Products and Services
  - 14.4.4 Financial Overview
  - 14.4.5 SWOT Analysis
  - 14.4.6 Key Developments
- 14.5 Qiagen NV
  - 14.5.1 Key Facts
  - 14.5.2 Business Description
- 14.5.3 Products and Services
- 14.5.4 Financial Overview
- 14.5.5 SWOT Analysis
- 14.5.6 Key Developments
- 14.6 Merck KGaA
- 14.6.1 Key Facts
- 14.6.2 Business Description
- 14.6.3 Products and Services
- 14.6.4 Financial Overview
- 14.6.5 SWOT Analysis
- 14.6.6 Key Developments



- 14.7 Illumina Inc
  - 14.7.1 Key Facts
  - 14.7.2 Business Description
  - 14.7.3 Products and Services
  - 14.7.4 Financial Overview
  - 14.7.5 SWOT Analysis
  - 14.7.6 Key Developments
- 14.8 Takara Bio Inc
  - 14.8.1 Key Facts
  - 14.8.2 Business Description
  - 14.8.3 Products and Services
  - 14.8.4 Financial Overview
  - 14.8.5 SWOT Analysis
  - 14.8.6 Key Developments
- 14.9 Thermo Fisher Scientific Inc
  - 14.9.1 Key Facts
  - 14.9.2 Business Description
  - 14.9.3 Products and Services
  - 14.9.4 Financial Overview
  - 14.9.5 SWOT Analysis
  - 14.9.6 Key Developments

## **15. APPENDIX**

15.1 About Us

15.2 Glossary of Terms



# **List Of Tables**

#### LIST OF TABLES

Table 1. Middle East & Africa DNA Extraction, Isolation, and Purification Market Segmentation

Table 2. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by Type -Revenue and Forecast to 2030 (US\$ Million)

Table 3. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by Method -Revenue and Forecast to 2030 (US\$ Million)

Table 4. Saudi Arabia DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method - Revenue and Forecast to 2030 (US\$ Million)

Table 5. Saudi Arabia DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method - Revenue and Forecast to 2030 (US\$ Million)

Table 6. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by Sample Type - Revenue and Forecast to 2030 (US\$ Million)

Table 7. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by Source -Revenue and Forecast to 2030 (US\$ Million)

Table 8. Saudi Arabia DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source - Revenue and Forecast to 2030 (US\$ Million)

Table 9. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by Application - Revenue and Forecast to 2030 (US\$ Million)

Table 10. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application - Revenue and Forecast to 2030 (US\$ Million)

Table 11. Saudi Arabia DNA Extraction, Isolation, and Purification Market, by End User - Revenue and Forecast to 2030 (US\$ Million)

Table 12. UAE DNA Extraction, Isolation, and Purification Market, by Type - Revenue and Forecast to 2030 (US\$ Million)

Table 13. UAE DNA Extraction, Isolation, and Purification Market, by Method - Revenue and Forecast to 2030 (US\$ Million)

Table 14. UAE DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method - Revenue and Forecast to 2030 (US\$ Million)

Table 15. UAE DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method - Revenue and Forecast to 2030 (US\$ Million)

Table 16. UAE DNA Extraction, Isolation, and Purification Market, by Sample Type -Revenue and Forecast to 2030 (US\$ Million)

Table 17. UAE DNA Extraction, Isolation, and Purification Market, by Source - Revenue and Forecast to 2030 (US\$ Million)

Table 18. UAE DNA Extraction, Isolation, and Purification Market, For Microbial DNA by



Source - Revenue and Forecast to 2030 (US\$ Million) Table 19. UAE DNA Extraction, Isolation, and Purification Market, by Application -Revenue and Forecast to 2030 (US\$ Million) Table 20. UAE DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application - Revenue and Forecast to 2030 (US\$ Million) Table 21. UAE DNA Extraction, Isolation, and Purification Market, by End User -Revenue and Forecast to 2030 (US\$ Million) Table 22. South Africa DNA Extraction, Isolation, and Purification Market, by Type -Revenue and Forecast to 2030 (US\$ Million) Table 23. South Africa DNA Extraction, Isolation, and Purification Market, by Method -Revenue and Forecast to 2030 (US\$ Million) Table 24. South Africa DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method - Revenue and Forecast to 2030 (US\$ Million) Table 25. South Africa DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method - Revenue and Forecast to 2030 (US\$ Million) Table 26. South Africa DNA Extraction, Isolation, and Purification Market, by Sample Type - Revenue and Forecast to 2030 (US\$ Million) Table 27. South Africa DNA Extraction, Isolation, and Purification Market, by Source -Revenue and Forecast to 2030 (US\$ Million) Table 28. South Africa DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source - Revenue and Forecast to 2030 (US\$ Million) Table 29. South Africa DNA Extraction, Isolation, and Purification Market, by Application - Revenue and Forecast to 2030 (US\$ Million) Table 30. South Africa DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application - Revenue and Forecast to 2030 (US\$ Million) Table 31. South Africa DNA Extraction, Isolation, and Purification Market, by End User -Revenue and Forecast to 2030 (US\$ Million) Table 32. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by Type - Revenue and Forecast to 2030 (US\$ Million) Table 33. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by Method - Revenue and Forecast to 2030 (US\$ Million) Table 34. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, For Chemical Methods by Method - Revenue and Forecast to 2030 (US\$ Million) Table 35. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, For Physical Methods by Method - Revenue and Forecast to 2030 (US\$ Million) Table 36. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by Sample Type - Revenue and Forecast to 2030 (US\$ Million)

Table 37. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification



Market, by Source - Revenue and Forecast to 2030 (US\$ Million) Table 38. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, For Microbial DNA by Source - Revenue and Forecast to 2030 (US\$ Million) Table 39. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by Application - Revenue and Forecast to 2030 (US\$ Million) Table 40. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by For PCR Test by Application - Revenue and Forecast to 2030 (US\$ Million) Table 41. Rest of Middle East & Africa DNA Extraction, Isolation, and Purification Market, by End User - Revenue and Forecast to 2030 (US\$ Million) Table 42. Recent Organic Growth Strategies in USA Pharmacy Management System Market Table 43. Recent Inorganic Growth Strategies in the USA Pharmacy Management System Market

Table 44. Glossary of Terms, DNA Extraction, Isolation, and Purification Market



# **List Of Figures**

#### LIST OF FIGURES

Figure 1. Middle East & Africa DNA Extraction, Isolation, and Purification Market Segmentation, By Country Figure 2. Middle East & Africa DNA Extraction, Isolation, and Purification Market: Key Industry Dynamics Figure 3. Middle East & Africa DNA Extraction, Isolation, and Purification Market: Impact Analysis of Drivers and Restraints Figure 4. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue (US\$ Mn), 2020 - 2030 Figure 5. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Type 2022 & 2030 (%) Figure 6. Kits: Middle East & Africa DNA Extraction, Isolation, and Purification Market -Revenue and Forecast to 2030 (US\$ Million) Figure 7. Instrument: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 8. Reagent: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 9. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Method 2022 & 2030 (%) Figure 10. Chemical Methods: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 11. Phenol Chloroform Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 12. Silica Gel Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 13. Proteinase K Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 14. Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 15. Physical Methods: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 16. Magnetic Bead Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 17. Paper DNA Method: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 18. Middle East & Africa DNA Extraction, Isolation, and Purification Market



Revenue Share, by Sample Type 2022 & 2030 (%) Figure 19. Blood: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 20. Body Fluids: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 21. Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 22. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Source 2022 & 2030 (%) Figure 23. Genomic DNA: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 24. Microbial DNA: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 25. Bacterial: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 26. Virus: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 27. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by Application 2022 & 2030 (%) Figure 28. PCR Test: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 29. qPCR: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 30. Multiplex PCR: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 31. 16S PCR: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 32. Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 33. Next Generation Sequencing (NGS): Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 34. Microarray: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 35. Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million) Figure 36. Middle East & Africa DNA Extraction, Isolation, and Purification Market Revenue Share, by End User 2022 & 2030 (%) Figure 37. Hospitals Diagnostic Center and Research Laboratories: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to



2030 (US\$ Million)

Figure 38. Pharmaceutical and Biopharmaceutical Companies: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 39. CROs: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 40. Others: Middle East & Africa DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 41. Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Key Country - Revenue (2022) (US\$ Million)

Figure 42. Middle East & Africa: DNA Extraction, Isolation, and Purification Market, by Country, 2022 & 2030 (%)

Figure 43. Saudi Arabia: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 44. UAE: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 45. South Africa: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 46. Rest of Middle East & Africa: DNA Extraction, Isolation, and Purification Market - Revenue and Forecast to 2030 (US\$ Million)



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