

DNA/RNA Sample Extraction and Isolation Market By Product (Consumables, Instruments) , By Application (PCR, NGS, Cloning, Microarray, Blotting Techniques, Other Applications) By End User (Clinical Diagnostic and Forensic Laboratories, Research Academics and Institutions, Pharmaceutical and Biotechnology Companies, Contract Research Organizations, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

DNA/RNA Sample Extraction and Isolation Market

The DNA/RNA sample extraction and isolation market was valued at \$2.8 billion in 2023 and is projected to reach \$5.5 billion by 2033, growing at a CAGR of 6.9% from 2024 to 2033.

DNA/RNA sample extraction and isolation is a biomolecular technique that involves procuring nucleic acid from biological samples. Preserving the integrity and functionality of DNA/RNA is a critical requisite of this technique. The genome is extracted from diverse samples, including saliva, blood, cultured cells, tissue biopsies, and environmental samples such as soil & water. Efficient extraction and storage of DNA/RNA is crucial as the sample is utilized further for genetic analysis, sequencing, cloning, or diagnostics.

Advancements in genomic technology have fueled the demand for high-quality DNA and RNA, propelling the growth of the market. In addition, rise in investments in R&D

activities to boost their capacity and efficiency drives the growth of the market considerably. Examination of novel adsorbents with higher nucleic acid-capturing ability as compared to conventional procedures such as phenol-chloroform and ethanol precipitation is a notable trend in the DNA/RNA sample extraction and isolation market. For instance, several studies have demonstrated the remarkable DNA-capturing capabilities of plant fiber-based adsorbents.

However, high costs of procuring the extraction & isolation kits deter several small-scale laboratories and institutions from investing in them, restraining the development of the market. Furthermore, stringent regulatory & approval processes associated with the introduction of novel DNA/RNA sample extraction and isolation solutions hamper the market growth. On the contrary, rise in the popularity of biobanks to store biological specimens and genomic samples is anticipated to present lucrative opportunities for the market. For instance, scientists at Harvard and the Broad Institute of MIT, along with colleagues at the University of Michigan established the “Global Biobank Meta-analysis Initiative” to unite international biobanks to strengthen the studies of genetic data. Therefore, the DNA/RNA sample extraction and isolation market is projected to witness new avenues for the assembly of a widespread collection of genomic data in biobanks.

Segment Review

The DNA/RNA sample extraction and isolation market is segmented into product, application, end user, and region. On the basis of product, the market is bifurcated into consumables and instruments. Depending on application, it is divided into PCR, NGS, cloning, microarray, blotting techniques, and other applications. As per end user, it is classified into clinical diagnostic & forensic laboratories, research academics & institutions, pharmaceutical & biotechnology companies, contract research organizations, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the consumables segment acquires a high stake in the market.

Depending on application, the PCR segment dominates the market share.

As per end user, the research academics & institutions segment accounts for a high share of the market.

Region wise, North America is the highest revenue generator in the market.

Competition Analysis

The major players in the global DNA/RNA sample extraction and isolation market include Thermo Fisher Scientific Inc., QIAGEN, Minerva Biolabs GmbH, ACON Laboratories, Inc., Bio-Rad Laboratories, Inc., Abnova Corporation, Merck KGaA, Promega Corporation, F. Hoffmann-La Roche Ltd, and Tecan Trading AG. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Regulatory Guidelines

Additional company profiles with specific to client's interest

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By Product

Consumables

Instruments

By Application

PCR

NGS

Cloning

Microarray

Blotting Techniques

Other Applications

By End User

Clinical Diagnostic and Forensic Laboratories

Research Academics and Institutions

Pharmaceutical and Biotechnology Companies

Contract Research Organizations

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Thermo Fisher Scientific Inc.

QIAGEN

Minerva Biolabs GmbH

ACON Laboratories, Inc.

Bio-Rad Laboratories, Inc.

Abnova Corporation

Merck KGaA

Promega Corporation

F. Hoffmann-La Roche Ltd

Tecan Trading AG

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