

Nucleic Acid Testing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global nucleic acid testing market size reached US\$ 2.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.2 Billion by 2028, exhibiting a growth rate (CAGR) of 6.4% during 2022-2028.

Nucleic acid testing (NAT) refers to a molecular technique for screening viruses, bacteria or pathogenic nucleic acid in the blood, tissue or urine of the patient. It is conducted for forensic testing and to diagnose transfusion-transmitted infections, genetic diseases and cancer. It involves sample pooling through nucleic acid (NA) extraction, target NA amplification and target amplicon NA detection. The testing involves kits and consumables for performing polymerase chain reaction (PCR), strand displacement amplification (SDA), ligase chain reaction (LCR), transcription-mediated amplification (TMA) and NA sequence-based amplification (NASBA) processes. NAT is also used for the identification of diseases with no visible symptoms and resolving false reactive interpretations.

The increasing prevalence of infectious bacterial and viral diseases across the globe represents one of the key factors driving the growth of the market. Furthermore, the increasing demand for advanced diagnostic systems is also driving the market growth. In line with this, the onset of the coronavirus disease (COVID-19) has also enhanced the demand for NAT solutions to detect the antigens. NAT is widely used for the effective management of communicable diseases and accurate identification of the infecting agent. Additionally, various technological advancements, such as the development of novel biological diagnostic techniques, including signal and probe amplification systems, are acting as other growth-inducing factors. These innovative techniques aid in the early detection of the disease and minimizing the infectious period of the virus. Other factors, including extensive research and development (R&D) activities, along with improvements in the healthcare infrastructure, are anticipated to

drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global nucleic acid testing market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on product type, technology and end user.

Breakup by Product Type:

Instruments

Reagents and Consumables

Breakup by Technology:

TMA- Transcription-mediated Amplification

PCR- Polymerase Chain Reaction

LCR- Ligase Chain Reaction

SDA- Strand Displacement Amplification

Others

Breakup by End User:

Hospitals and Clinics

Pathology Laboratories

Research Institutes

Others

Breakup by Region:

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, Agilent Technologies, Becton, Dickinson and Company, Bio-Rad Laboratories Inc., Danaher Corporation, F. Hoffmann-La Roche Ltd., Illumina Inc., Merck KGaA, Siemens Healthcare, Tecan Group AG and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global nucleic acid testing market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global nucleic acid testing market?

What are the key regional markets?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global nucleic acid testing market and who are the key players?

What is the degree of competition in the industry?

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