

Global Therapeutic Drug Monitoring Market Size Study, by Product (Equipment, Consumables), by Drug Class (Antiarrhythmic Drugs, Immunosuppressants, Antiepileptic Drugs, Others), by End Use (Hospitals, Diagnostic Centers, Others), and Regional Forecasts 2022-2032

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Abstracts

The global therapeutic drug monitoring (TDM) market, valued at USD 1.80 billion in 2023, is projected to grow to USD 2.52 billion by 2032, at a compound annual growth rate (CAGR) of 3.8% during the forecast period 2024–2030. Therapeutic drug monitoring is a critical component of personalized medicine, ensuring the optimization of drug dosage and safety for various medical conditions. TDM involves measuring specific drug levels in a patient's blood to maintain therapeutic concentrations while minimizing toxicity.

Key growth drivers include the rising prevalence of chronic diseases such as diabetes, cancer, and cardiovascular disorders, coupled with technological advancements in diagnostic tools. The increasing adoption of genetic testing and personalized medicine also contributes significantly to market expansion. For example, innovative methods like AMPLON DNA amplification have improved the accuracy and efficiency of diagnostic testing. Furthermore, supportive regulatory policies and investments in healthcare infrastructure fuel the demand for TDM services globally.

North America dominated the global TDM market in 2023, accounting for 42.7% of the revenue share, owing to heightened awareness, government regulations, and technological advancements in diagnostic equipment. The Asia-Pacific region is expected to witness the highest growth during the forecast period, driven by an aging

population, increasing cases of chronic illnesses, and improvements in healthcare infrastructure.

Major market players included in this report are:

Abbott

ALPCO

Beckman Coulter, Inc.

Bio-Rad Laboratories, Inc.

Thermo Fisher Scientific Inc.

Chromsystems Instruments & Chemicals GmbH

F. Hoffmann-La Roche Ltd.

Randox Laboratories Ltd.

Siemens Healthineers AG

biomérieux, Inc.

The detailed segments and sub-segments of the market are explained below:

By Product:

Equipment

Immunoassay Analyzers

Clinical Chemistry Analyzers

Chromatography & MS Detectors

Consumables

By Drug Class:

Antiarrhythmic Drugs

Immunosuppressants

Antiepileptic Drugs

Others

By End Use:

Hospitals

Diagnostic Centers

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Detailed analysis of market segments with revenue forecasts from 2024 to 2030.

Country-level insights and competitive analysis.

Trends in diagnostic equipment and consumables driving growth in TDM.

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