

Global Antimicrobial Susceptibility Testing Market Size Study, by Product (Manual Tests, Automated Instruments, Consumables & Media), by Technique (Disk Diffusion, Automated AST, Etest Method, Others), by Application (Drug Development, Susceptibility Testing, Others), by End-use (Hospitals, Diagnostic Laboratories, Biotechnology & Pharmaceutical Companies, Others), and Regional Forecasts 2022-2032

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Abstracts

The global Antimicrobial Susceptibility Testing (AST) market, valued at USD 3.42 billion in 2023, is projected to reach USD 5.35 billion by 2032, growing at a robust CAGR of 5.1% during the forecast period from 2024 to 2032. AST plays a pivotal role in combating antimicrobial resistance (AMR), a growing global health crisis caused by the overuse and misuse of antibiotics. This testing method enables healthcare providers to identify the most effective antimicrobial therapy, minimizing treatment failures and the spread of resistant pathogens.

The market's expansion is driven by the rising incidence of drug-resistant infections and an increasing focus on personalized medicine, where tailored treatments demand precise diagnostic solutions like AST. Government initiatives, such as the U.S. National Action Plan for Combating Antibiotic-Resistant Bacteria (CARB) and the Global Antibiotic Resistance and Usage Surveillance System (GLASS), are further bolstering the adoption of AST technologies. These efforts reflect the global commitment to reducing AMR through improved diagnostics and therapeutic strategies.

Technological advancements, particularly in automated AST systems, are reshaping the industry landscape. Automated systems offer higher accuracy, reduced errors, and faster turnaround times compared to manual methods. Recent innovations, such as rapid AST solutions capable of delivering results within hours, are accelerating their adoption in clinical and research settings. Companies like NanoSynex Ltd. and COPAN Diagnostics are at the forefront, introducing next-generation AST tools to the market.

Regional dynamics reveal North America as the dominant market, supported by advanced healthcare infrastructure, a high prevalence of multidrug-resistant infections, and substantial investments in R&D. Meanwhile, the Asia-Pacific region is expected to exhibit the fastest growth, driven by increasing healthcare expenditures, growing awareness of AMR, and initiatives to modernize healthcare systems. Europe also plays a significant role, benefiting from supportive policies and a focus on technological innovation.

Major market players included in this report are:

Thermo Fisher Scientific Inc.

BD (Becton, Dickinson, and Company)

bioMérieux SA

Danaher Corporation

Bio-Rad Laboratories Inc.

Merck & Co., Inc.

Siemens Healthineers

Creative Diagnostics

F. Hoffmann-La Roche Ltd

Hi-Media Laboratories Pvt. Ltd.

ELITechGroup

COPAN Diagnostics Inc.

Agilent Technologies Inc.

Beckman Coulter Inc.

NanoSynex Ltd.

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

By Product:

Manual Tests

MIC Strips

Susceptibility Testing Disks

Susceptibility Plates

Automated Instruments

Consumables & Media

By Technique:

Disk Diffusion

Automated AST

Etest Method

Dilution

Others

By Application:

Drug Development

Susceptibility Testing

Others

By End-Use:

Hospitals

Diagnostic Laboratories

Biotechnology & Pharmaceutical Companies

Others

By Region:

North America:

U.S.

Canada

Europe:

U.K.

Germany

France

Spain

Italy

Sweden

Norway

Denmark

Asia-Pacific:

China

India

Japan

South Korea

Australia

Thailand

Latin America:

Brazil

Mexico

Argentina

Middle East & Africa:

Saudi Arabia

South Africa

UAE

Kuwait

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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