

# **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**

<https://marketpublishers.com/r/GF150CADFA1AEN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GF150CADFA1AEN

## **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.

## Contents

### **CHAPTER 1. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET EXECUTIVE SUMMARY**

- 1.1. Global Antimicrobial Susceptibility Testing Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product
  - 1.3.2. By Technique
  - 1.3.3. By Application
  - 1.3.4. By End-Use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

### **CHAPTER 2. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply-Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand-Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

## **CHAPTER 3. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET DYNAMICS**

### **3.1. Market Drivers**

- 3.1.1. Increasing prevalence of antimicrobial resistance
- 3.1.2. Advancements in personalized medicine
- 3.1.3. Favorable government policies to combat AMR

### **3.2. Market Challenges**

- 3.2.1. High costs of advanced AST systems
- 3.2.2. Limited standardization in AST techniques

### **3.3. Market Opportunities**

- 3.3.1. Expansion of rapid AST technologies
- 3.3.2. Rising investments in healthcare infrastructure, especially in APAC

## **CHAPTER 4. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET INDUSTRY ANALYSIS**

### **4.1. Porter's Five Forces Model**

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry

### **4.2. PESTEL Analysis**

- 4.2.1. Political
- 4.2.2. Economic
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### **4.3. Top Investment Opportunities**

### **4.4. Disruptive Trends**

### **4.5. Industry Expert Perspectives**

## **CHAPTER 5. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECASTS BY PRODUCT (2022-2032)**

### **5.1. Segment Dashboard**

### **5.2. Manual Tests**



- 5.2.1. MIC Strips
- 5.2.2. Susceptibility Testing Disks
- 5.2.3. Susceptibility Plates
- 5.3. Automated Instruments
- 5.4. Consumables & Media

## **CHAPTER 6. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECASTS BY TECHNIQUE (2022-2032)**

- 6.1. Segment Dashboard
- 6.2. Disk Diffusion
- 6.3. Automated AST
- 6.4. Etest Method
- 6.5. Others

## **CHAPTER 7. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECASTS BY APPLICATION (2022-2032)**

- 7.1. Segment Dashboard
- 7.2. Drug Development
- 7.3. Susceptibility Testing
- 7.4. Others

## **CHAPTER 8. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECASTS BY END-USE (2022-2032)**

- 8.1. Segment Dashboard
- 8.2. Hospitals
- 8.3. Diagnostic Laboratories
- 8.4. Biotechnology & Pharmaceutical Companies
- 8.5. Others

## **CHAPTER 9. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECASTS BY REGION (2022-2032)**

- 9.1. North America
  - 9.1.1. U.S.
  - 9.1.2. Canada
- 9.2. Europe

- 9.2.1. U.K.
- 9.2.2. Germany
- 9.2.3. France
- 9.2.4. Spain
- 9.2.5. Italy
- 9.2.6. Sweden
- 9.2.7. Norway
- 9.2.8. Denmark
- 9.3. Asia-Pacific
  - 9.3.1. China
  - 9.3.2. India
  - 9.3.3. Japan
  - 9.3.4. South Korea
  - 9.3.5. Australia
  - 9.3.6. Thailand
- 9.4. Latin America
  - 9.4.1. Brazil
  - 9.4.2. Mexico
  - 9.4.3. Argentina
- 9.5. Middle East & Africa
  - 9.5.1. Saudi Arabia
  - 9.5.2. South Africa
  - 9.5.3. UAE
  - 9.5.4. Kuwait

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Thermo Fisher Scientific Inc.
  - 10.1.2. BD (Becton, Dickinson, and Company)
  - 10.1.3. bioMérieux SA
- 10.2. Top Market Strategies
- 10.3. Company Profiles
  - 10.3.1. Thermo Fisher Scientific Inc.
  - 10.3.2. BD (Becton, Dickinson, and Company)
  - 10.3.3. Danaher Corporation
  - 10.3.4. Bio-Rad Laboratories Inc.
  - 10.3.5. Merck & Co., Inc.
  - 10.3.6. Siemens Healthineers

- 10.3.7. Creative Diagnostics
- 10.3.8. COPAN Diagnostics Inc.
- 10.3.9. ELITechGroup
- 10.3.10. Hi-Media Laboratories Pvt. Ltd.

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
- 11.2. Research Attributes

## **12. LIST OF TABLES**

**1. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST, 2022–2032 (USD BILLION)**

**2. NORTH AMERICA ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST BY COUNTRY, 2022–2032 (USD MILLION)**

**3. EUROPE ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST BY COUNTRY, 2022–2032 (USD MILLION)**

**4. ASIA-PACIFIC ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST BY COUNTRY, 2022–2032 (USD MILLION)**

**5. LATIN AMERICA ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST BY COUNTRY, 2022–2032 (USD MILLION)**

**6. MIDDLE EAST & AFRICA ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST BY COUNTRY, 2022–2032 (USD MILLION)**

**7. MARKET SEGMENTATION BY PRODUCT, 2022–2032 (USD MILLION)**

**8. MANUAL TESTS MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**9. AUTOMATED INSTRUMENTS MARKET SIZE & FORECAST, 2022–2032 (USD**

**MILLION)**

**10. CONSUMABLES & MEDIA MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**11. MARKET SEGMENTATION BY TECHNIQUE, 2022–2032 (USD MILLION)**

**12. DISK DIFFUSION MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**13. AUTOMATED AST MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**14. ETEST METHOD MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**15. MARKET SEGMENTATION BY APPLICATION, 2022–2032 (USD MILLION)**

**16. DRUG DEVELOPMENT MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**17. SUSCEPTIBILITY TESTING MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**18. END-USE MARKET SEGMENTATION BY HOSPITALS, 2022–2032 (USD MILLION)**

**19. BIOTECHNOLOGY & PHARMACEUTICAL COMPANIES MARKET SIZE & FORECAST, 2022–2032 (USD MILLION)**

**20. LIST OF MAJOR MARKET PLAYERS AND MARKET SHARE ANALYSIS (2023)**

This list is not complete; the final report contains over 100 tables. The list may be updated in the final deliverable.

## **12. LIST OF FIGURES**

**1. GLOBAL ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET TRENDS, 2022–2032**

**2. MARKET SEGMENTATION BY PRODUCT, 2023 (SHARE %)**

- 3. REGIONAL ANALYSIS OF ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET, 2023 (SHARE %)**
- 4. MARKET SEGMENTATION BY TECHNIQUE, 2023 (SHARE %)**
- 5. AUTOMATED INSTRUMENTS GROWTH RATE (CAGR) BY REGION, 2024–2032**
- 6. TECHNOLOGICAL ADVANCEMENTS IN AST SYSTEMS, 2023 OVERVIEW**
- 7. NORTH AMERICA ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET, HISTORICAL VS. FORECAST, 2022–2032**
- 8. APAC ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET GROWTH POTENTIAL, 2023–2032**
- 9. PORTER’S FIVE FORCES ANALYSIS OF THE AST MARKET, 2023**
- 10. PESTEL ANALYSIS OF ANTIMICROBIAL SUSCEPTIBILITY TESTING MARKET, 2023**
- 11. COMPETITIVE MARKET SHARE ANALYSIS, 2023**
- 12. SWOT ANALYSIS OF THERMO FISHER SCIENTIFIC INC.**
- 13. SWOT ANALYSIS OF BD (BECTON, DICKINSON, AND COMPANY)**
- 14. SWOT ANALYSIS OF BIOM?RIEUX SA**
- 15. TOP STRATEGIES OF KEY PLAYERS IN THE AST MARKET, 2023**
- 16. GLOBAL AMR STATISTICS OVERVIEW, 2023 (CASES BY REGION)**
- 17. SHARE OF AUTOMATED INSTRUMENTS VS. MANUAL TESTS, 2023**
- 18. ROLE OF AST IN DRUG DEVELOPMENT PIPELINE, 2023–2032**
- 19. REGIONAL SNAPSHOT OF KEY MARKET TRENDS, 2023**
- 20. INVESTMENT TRENDS IN AST TECHNOLOGIES, 2024–2032**

This list is not complete; the final report contains over 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/GF150CADFA1AEN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF150CADFA1AEN.html>