

Global Antimicrobial Resistance Testing System Market Growth 2026-2032

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Abstracts

The global Antimicrobial Resistance Testing System market size is predicted to grow from US\$ 1821 million in 2025 to US\$ 2714 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

An Antimicrobial Resistance Testing System is an in vitro diagnostic system used to detect the susceptibility or resistance characteristics of pathogenic microorganisms, including bacteria, fungi, and mycobacteria, to antimicrobial agents. It typically consists of automated instruments, susceptibility testing panels or cards, culture media, identification reagents, molecular testing reagents, quality controls, data analysis software, and laboratory information system interfaces. The system may use broth microdilution, disk diffusion, E-test, automated antimicrobial susceptibility testing, PCR, sequencing, or resistance gene detection to determine whether a pathogen is susceptible, intermediate, or resistant to specific antimicrobial drugs. It provides critical evidence for clinical anti-infective therapy, antimicrobial stewardship, hospital infection control, and public health resistance surveillance. Its core value lies in shortening the transition from empirical treatment to precision therapy and reducing inappropriate antimicrobial use, making it an essential platform for modern infectious disease management and hospital microbiology laboratories. In 2025, global Antimicrobial Resistance Testing System production reached approximately 74.45 k units. The average gross profit margin of this product is 45%.

Antimicrobial resistance testing systems are positioned at the center of global infectious disease management upgrades and strengthened antimicrobial stewardship. The spread of drug-resistant organisms, rising severe infections, growing hospital infection-control pressure, and stronger requirements for rational antibiotic use are shifting clinical demand from simply asking 'whether there is an infection?' to asking 'what

pathogen is present, which drug is effective, and whether a resistance mechanism exists.? Hospital microbiology laboratories are moving from manual workflows toward automation, standardization, and digitalization, making resistance testing systems a critical hub connecting pathogen identification, susceptibility results, clinical prescribing, and infection-control surveillance. For CEOs, marketing leaders, and investors, the appeal of this industry lies not only in routine susceptibility testing demand, but also in long-term structural opportunities created by antimicrobial stewardship, regional resistance surveillance, rapid severe infection management, and intelligent laboratory construction.

The challenges of antimicrobial resistance testing systems mainly arise from technical accuracy, complex clinical interpretation, and regulatory standardization requirements. Because susceptibility results directly influence anti-infective treatment decisions, systems must remain highly reliable in repeatability, accuracy, antimicrobial concentration gradients, breakpoint updates, and quality control. Resistance patterns, clinical guidelines, drug availability, and laboratory capabilities vary across regions, requiring localized adaptation for global commercialization. Molecular resistance testing is fast, but resistance genes do not always equal phenotypic resistance, so companies must bridge the interpretation gap between genetic results and phenotypic susceptibility. Commercially, the market also faces constraints related to hospital testing fees, equipment budgets, reagent costs, staff training, and information-system integration. Future competition will depend not only on instrument performance, but also on whether companies can provide stable, interpretable, traceable solutions that integrate into hospital antimicrobial stewardship systems.

Downstream demand for antimicrobial resistance testing systems is expanding from tertiary hospital microbiology laboratories to regional testing centers, secondary hospitals, public health agencies, intensive care units, and infectious disease specialties. Large hospitals place greater emphasis on high throughput, automation, rapid reporting, and information connectivity to support complex infections, bloodstream infections, carbapenem-resistant organisms, fungal infections, and multidrug-resistant organism management. Primary and regional laboratories focus more on ease of use, cost control, and standardized results. As clinical attention to antimicrobial stewardship increases, downstream customers no longer need only a susceptibility report; they expect faster turnaround time, clearer resistance mechanism alerts, more user-friendly clinical interpretation, and stronger data reporting capabilities. Companies with integrated instrument platforms, reagent menus, software algorithms, and interfaces for infection-control and pharmacy data will be better positioned to enter long-term hospital procurement systems.

LP Information, Inc. (LPI) ' newest research report, the "Antimicrobial Resistance Testing System Industry Forecast" looks at past sales and reviews total world Antimicrobial Resistance Testing System sales in 2025, providing a comprehensive analysis by region and market sector of projected Antimicrobial Resistance Testing System sales for 2026 through 2032. With Antimicrobial Resistance Testing System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Antimicrobial Resistance Testing System industry.

This Insight Report provides a comprehensive analysis of the global Antimicrobial Resistance Testing System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Antimicrobial Resistance Testing System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Antimicrobial Resistance Testing System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Antimicrobial Resistance Testing System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Antimicrobial Resistance Testing System.

This report presents a comprehensive overview, market shares, and growth opportunities of Antimicrobial Resistance Testing System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Automated AST System

Molecular Resistance Testing

MALDI-TOF Linked AST

Other

Segmentation by Pathogen Type:

Gram-Negative Bacteria

Gram-Positive Bacteria

Mycobacteria

Fungal Resistance

Other

Segmentation by Use Setting:

Hospital Microbiology Lab

Reference Laboratory

ICU And Emergency

Public Health Surveillance

Research Use

Other

Segmentation by Application:

Hospitals

Third-Party Laboratories

CDC And Public Health

Pharmaceutical Research

Veterinary And Food Safety

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

bioMérieux

BD

Thermo Fisher Scientific

Danaher

Bruker

Accelerate Diagnostics

Liofilchem

Autobio Diagnostics

Scenker Biological

DL Biotech

Zhuhai Meihua

Mindray Medical

Hefei Hengxing Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Antimicrobial Resistance Testing System market?

What factors are driving Antimicrobial Resistance Testing System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Antimicrobial Resistance Testing System market opportunities vary by end market size?

How does Antimicrobial Resistance Testing System break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Antimicrobial Resistance Testing System Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Antimicrobial Resistance Testing System by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Antimicrobial Resistance Testing System by Country/Region, 2021, 2025 & 2032

2.2 Antimicrobial Resistance Testing System Segment by Type

- 2.2.1 Automated AST System
- 2.2.2 Molecular Resistance Testing
- 2.2.3 MALDI-TOF Linked AST
- 2.2.4 Other
- 2.2.5 Antimicrobial Resistance Testing System Sales by Type
 - 2.2.5.1 Global Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Antimicrobial Resistance Testing System Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Antimicrobial Resistance Testing System Sale Price by Type (2021-2026)

2.3 Antimicrobial Resistance Testing System Segment by Pathogen Type

- 2.3.1 Gram-Negative Bacteria
- 2.3.2 Gram-Positive Bacteria
- 2.3.3 Mycobacteria
- 2.3.4 Fungal Resistance
- 2.3.5 Other

2.3.6 Antimicrobial Resistance Testing System Sales by Pathogen Type

2.3.6.1 Global Antimicrobial Resistance Testing System Sales Market Share by Pathogen Type (2021-2026)

2.3.6.2 Global Antimicrobial Resistance Testing System Revenue and Market Share by Pathogen Type (2021-2026)

2.3.6.3 Global Antimicrobial Resistance Testing System Sale Price by Pathogen Type (2021-2026)

2.4 Antimicrobial Resistance Testing System Segment by Use Setting

2.4.1 Hospital Microbiology Lab

2.4.2 Reference Laboratory

2.4.3 ICU And Emergency

2.4.4 Public Health Surveillance

2.4.5 Research Use

2.4.6 Other

2.4.7 Antimicrobial Resistance Testing System Sales by Use Setting

2.4.7.1 Global Antimicrobial Resistance Testing System Sales Market Share by Use Setting (2021-2026)

2.4.7.2 Global Antimicrobial Resistance Testing System Revenue and Market Share by Use Setting (2021-2026)

2.4.7.3 Global Antimicrobial Resistance Testing System Sale Price by Use Setting (2021-2026)

2.5 Antimicrobial Resistance Testing System Segment by Application

2.5.1 Hospitals

2.5.2 Third-Party Laboratories

2.5.3 CDC And Public Health

2.5.4 Pharmaceutical Research

2.5.5 Veterinary And Food Safety

2.5.6 Other

2.5.7 Antimicrobial Resistance Testing System Sales by Application

2.5.7.1 Global Antimicrobial Resistance Testing System Sale Market Share by Application (2021-2026)

2.5.7.2 Global Antimicrobial Resistance Testing System Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Antimicrobial Resistance Testing System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Antimicrobial Resistance Testing System Breakdown Data by Company

3.1.1 Global Antimicrobial Resistance Testing System Annual Sales by Company (2021-2026)

3.1.2 Global Antimicrobial Resistance Testing System Sales Market Share by Company (2021-2026)

3.2 Global Antimicrobial Resistance Testing System Annual Revenue by Company (2021-2026)

3.2.1 Global Antimicrobial Resistance Testing System Revenue by Company (2021-2026)

3.2.2 Global Antimicrobial Resistance Testing System Revenue Market Share by Company (2021-2026)

3.3 Global Antimicrobial Resistance Testing System Sale Price by Company

3.4 Key Manufacturers Antimicrobial Resistance Testing System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Antimicrobial Resistance Testing System Product Location Distribution

3.4.2 Players Antimicrobial Resistance Testing System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ANTIMICROBIAL RESISTANCE TESTING SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Antimicrobial Resistance Testing System Market Size by Geographic Region (2021-2026)

4.1.1 Global Antimicrobial Resistance Testing System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Antimicrobial Resistance Testing System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Antimicrobial Resistance Testing System Market Size by Country/Region (2021-2026)

4.2.1 Global Antimicrobial Resistance Testing System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Antimicrobial Resistance Testing System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Antimicrobial Resistance Testing System Sales Growth

4.4 APAC Antimicrobial Resistance Testing System Sales Growth

4.5 Europe Antimicrobial Resistance Testing System Sales Growth

4.6 Middle East & Africa Antimicrobial Resistance Testing System Sales Growth

5 AMERICAS

5.1 Americas Antimicrobial Resistance Testing System Sales by Country

5.1.1 Americas Antimicrobial Resistance Testing System Sales by Country
(2021-2026)

5.1.2 Americas Antimicrobial Resistance Testing System Revenue by Country
(2021-2026)

5.2 Americas Antimicrobial Resistance Testing System Sales by Type (2021-2026)

5.3 Americas Antimicrobial Resistance Testing System Sales by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Antimicrobial Resistance Testing System Sales by Region

6.1.1 APAC Antimicrobial Resistance Testing System Sales by Region (2021-2026)

6.1.2 APAC Antimicrobial Resistance Testing System Revenue by Region (2021-2026)

6.2 APAC Antimicrobial Resistance Testing System Sales by Type (2021-2026)

6.3 APAC Antimicrobial Resistance Testing System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Antimicrobial Resistance Testing System by Country

7.1.1 Europe Antimicrobial Resistance Testing System Sales by Country (2021-2026)

7.1.2 Europe Antimicrobial Resistance Testing System Revenue by Country
(2021-2026)

- 7.2 Europe Antimicrobial Resistance Testing System Sales by Type (2021-2026)
- 7.3 Europe Antimicrobial Resistance Testing System Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Antimicrobial Resistance Testing System by Country
 - 8.1.1 Middle East & Africa Antimicrobial Resistance Testing System Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Antimicrobial Resistance Testing System Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Antimicrobial Resistance Testing System Sales by Type (2021-2026)
- 8.3 Middle East & Africa Antimicrobial Resistance Testing System Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Antimicrobial Resistance Testing System
- 10.3 Manufacturing Process Analysis of Antimicrobial Resistance Testing System
- 10.4 Industry Chain Structure of Antimicrobial Resistance Testing System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Antimicrobial Resistance Testing System Distributors

11.3 Antimicrobial Resistance Testing System Customer

12 WORLD FORECAST REVIEW FOR ANTIMICROBIAL RESISTANCE TESTING SYSTEM BY GEOGRAPHIC REGION

12.1 Global Antimicrobial Resistance Testing System Market Size Forecast by Region

12.1.1 Global Antimicrobial Resistance Testing System Forecast by Region (2027-2032)

12.1.2 Global Antimicrobial Resistance Testing System Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Antimicrobial Resistance Testing System Forecast by Type (2027-2032)

12.7 Global Antimicrobial Resistance Testing System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 bioMérieux

13.1.1 bioMérieux Company Information

13.1.2 bioMérieux Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.1.3 bioMérieux Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 bioMérieux Main Business Overview

13.1.5 bioMérieux Latest Developments

13.2 BD

13.2.1 BD Company Information

13.2.2 BD Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.2.3 BD Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 BD Main Business Overview
- 13.2.5 BD Latest Developments
- 13.3 Thermo Fisher Scientific
 - 13.3.1 Thermo Fisher Scientific Company Information
 - 13.3.2 Thermo Fisher Scientific Antimicrobial Resistance Testing System Product Portfolios and Specifications
 - 13.3.3 Thermo Fisher Scientific Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Thermo Fisher Scientific Main Business Overview
 - 13.3.5 Thermo Fisher Scientific Latest Developments
- 13.4 Danaher
 - 13.4.1 Danaher Company Information
 - 13.4.2 Danaher Antimicrobial Resistance Testing System Product Portfolios and Specifications
 - 13.4.3 Danaher Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Danaher Main Business Overview
 - 13.4.5 Danaher Latest Developments
- 13.5 Bruker
 - 13.5.1 Bruker Company Information
 - 13.5.2 Bruker Antimicrobial Resistance Testing System Product Portfolios and Specifications
 - 13.5.3 Bruker Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Bruker Main Business Overview
 - 13.5.5 Bruker Latest Developments
- 13.6 Accelerate Diagnostics
 - 13.6.1 Accelerate Diagnostics Company Information
 - 13.6.2 Accelerate Diagnostics Antimicrobial Resistance Testing System Product Portfolios and Specifications
 - 13.6.3 Accelerate Diagnostics Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Accelerate Diagnostics Main Business Overview
 - 13.6.5 Accelerate Diagnostics Latest Developments
- 13.7 Liofilchem
 - 13.7.1 Liofilchem Company Information
 - 13.7.2 Liofilchem Antimicrobial Resistance Testing System Product Portfolios and Specifications
 - 13.7.3 Liofilchem Antimicrobial Resistance Testing System Sales, Revenue, Price and

Gross Margin (2021-2026)

13.7.4 Liofilchem Main Business Overview

13.7.5 Liofilchem Latest Developments

13.8 Autobio Diagnostics

13.8.1 Autobio Diagnostics Company Information

13.8.2 Autobio Diagnostics Antimicrobial Resistance Testing System Product

Portfolios and Specifications

13.8.3 Autobio Diagnostics Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Autobio Diagnostics Main Business Overview

13.8.5 Autobio Diagnostics Latest Developments

13.9 Scenker Biological

13.9.1 Scenker Biological Company Information

13.9.2 Scenker Biological Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.9.3 Scenker Biological Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Scenker Biological Main Business Overview

13.9.5 Scenker Biological Latest Developments

13.10 DL Biotech

13.10.1 DL Biotech Company Information

13.10.2 DL Biotech Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.10.3 DL Biotech Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 DL Biotech Main Business Overview

13.10.5 DL Biotech Latest Developments

13.11 Zhuhai Meihua

13.11.1 Zhuhai Meihua Company Information

13.11.2 Zhuhai Meihua Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.11.3 Zhuhai Meihua Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Zhuhai Meihua Main Business Overview

13.11.5 Zhuhai Meihua Latest Developments

13.12 Mindray Medical

13.12.1 Mindray Medical Company Information

13.12.2 Mindray Medical Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.12.3 Mindray Medical Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Mindray Medical Main Business Overview

13.12.5 Mindray Medical Latest Developments

13.13 Hefei Hengxing Technology

13.13.1 Hefei Hengxing Technology Company Information

13.13.2 Hefei Hengxing Technology Antimicrobial Resistance Testing System Product Portfolios and Specifications

13.13.3 Hefei Hengxing Technology Antimicrobial Resistance Testing System Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Hefei Hengxing Technology Main Business Overview

13.13.5 Hefei Hengxing Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Antimicrobial Resistance Testing System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Antimicrobial Resistance Testing System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Automated AST System

Table 4. Major Players of Molecular Resistance Testing

Table 5. Major Players of MALDI-TOF Linked AST

Table 6. Major Players of Other

Table 7. Global Antimicrobial Resistance Testing System Sales by Type (2021-2026) & (K Units)

Table 8. Global Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)

Table 9. Global Antimicrobial Resistance Testing System Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Antimicrobial Resistance Testing System Revenue Market Share by Type (2021-2026)

Table 11. Global Antimicrobial Resistance Testing System Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 12. Major Players of Gram-Negative Bacteria

Table 13. Major Players of Gram-Positive Bacteria

Table 14. Major Players of Mycobacteria

Table 15. Major Players of Fungal Resistance

Table 16. Major Players of Other

Table 17. Global Antimicrobial Resistance Testing System Sales by Pathogen Type (2021-2026) & (K Units)

Table 18. Global Antimicrobial Resistance Testing System Sales Market Share by Pathogen Type (2021-2026)

Table 19. Global Antimicrobial Resistance Testing System Revenue by Pathogen Type (2021-2026) & (\$ million)

Table 20. Global Antimicrobial Resistance Testing System Revenue Market Share by Pathogen Type (2021-2026)

Table 21. Global Antimicrobial Resistance Testing System Sale Price by Pathogen Type (2021-2026) & (K US\$/Unit)

Table 22. Major Players of Hospital Microbiology Lab

Table 23. Major Players of Reference Laboratory

Table 24. Major Players of ICU And Emergency

Table 25. Major Players of Public Health Surveillance

Table 26. Major Players of Research Use

Table 27. Major Players of Other

Table 28. Global Antimicrobial Resistance Testing System Sales by Use Setting
(2021-2026) & (K Units)

Table 29. Global Antimicrobial Resistance Testing System Sales Market Share by Use
Setting (2021-2026)

Table 30. Global Antimicrobial Resistance Testing System Revenue by Use Setting
(2021-2026) & (\$ million)

Table 31. Global Antimicrobial Resistance Testing System Revenue Market Share by
Use Setting (2021-2026)

Table 32. Global Antimicrobial Resistance Testing System Sale Price by Use Setting
(2021-2026) & (K US\$/Unit)

Table 33. Global Antimicrobial Resistance Testing System Sale by Application
(2021-2026) & (K Units)

Table 34. Global Antimicrobial Resistance Testing System Sale Market Share by
Application (2021-2026)

Table 35. Global Antimicrobial Resistance Testing System Revenue by Application
(2021-2026) & (\$ million)

Table 36. Global Antimicrobial Resistance Testing System Revenue Market Share by
Application (2021-2026)

Table 37. Global Antimicrobial Resistance Testing System Sale Price by Application
(2021-2026) & (K US\$/Unit)

Table 38. Global Antimicrobial Resistance Testing System Sales by Company
(2021-2026) & (K Units)

Table 39. Global Antimicrobial Resistance Testing System Sales Market Share by
Company (2021-2026)

Table 40. Global Antimicrobial Resistance Testing System Revenue by Company
(2021-2026) & (\$ millions)

Table 41. Global Antimicrobial Resistance Testing System Revenue Market Share by
Company (2021-2026)

Table 42. Global Antimicrobial Resistance Testing System Sale Price by Company
(2021-2026) & (K US\$/Unit)

Table 43. Key Manufacturers Antimicrobial Resistance Testing System Producing Area
Distribution and Sales Area

Table 44. Players Antimicrobial Resistance Testing System Products Offered

Table 45. Antimicrobial Resistance Testing System Concentration Ratio (CR3, CR5 and
CR10) & (2024-2026)

Table 46. New Products and Potential Entrants

Table 47. Market M&A Activity & Strategy

Table 48. Global Antimicrobial Resistance Testing System Sales by Geographic Region (2021-2026) & (K Units)

Table 49. Global Antimicrobial Resistance Testing System Sales Market Share Geographic Region (2021-2026)

Table 50. Global Antimicrobial Resistance Testing System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 51. Global Antimicrobial Resistance Testing System Revenue Market Share by Geographic Region (2021-2026)

Table 52. Global Antimicrobial Resistance Testing System Sales by Country/Region (2021-2026) & (K Units)

Table 53. Global Antimicrobial Resistance Testing System Sales Market Share by Country/Region (2021-2026)

Table 54. Global Antimicrobial Resistance Testing System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 55. Global Antimicrobial Resistance Testing System Revenue Market Share by Country/Region (2021-2026)

Table 56. Americas Antimicrobial Resistance Testing System Sales by Country (2021-2026) & (K Units)

Table 57. Americas Antimicrobial Resistance Testing System Sales Market Share by Country (2021-2026)

Table 58. Americas Antimicrobial Resistance Testing System Revenue by Country (2021-2026) & (\$ millions)

Table 59. Americas Antimicrobial Resistance Testing System Sales by Type (2021-2026) & (K Units)

Table 60. Americas Antimicrobial Resistance Testing System Sales by Application (2021-2026) & (K Units)

Table 61. APAC Antimicrobial Resistance Testing System Sales by Region (2021-2026) & (K Units)

Table 62. APAC Antimicrobial Resistance Testing System Sales Market Share by Region (2021-2026)

Table 63. APAC Antimicrobial Resistance Testing System Revenue by Region (2021-2026) & (\$ millions)

Table 64. APAC Antimicrobial Resistance Testing System Sales by Type (2021-2026) & (K Units)

Table 65. APAC Antimicrobial Resistance Testing System Sales by Application (2021-2026) & (K Units)

Table 66. Europe Antimicrobial Resistance Testing System Sales by Country

(2021-2026) & (K Units)

Table 67. Europe Antimicrobial Resistance Testing System Revenue by Country
(2021-2026) & (\$ millions)

Table 68. Europe Antimicrobial Resistance Testing System Sales by Type (2021-2026)
& (K Units)

Table 69. Europe Antimicrobial Resistance Testing System Sales by Application
(2021-2026) & (K Units)

Table 70. Middle East & Africa Antimicrobial Resistance Testing System Sales by
Country (2021-2026) & (K Units)

Table 71. Middle East & Africa Antimicrobial Resistance Testing System Revenue
Market Share by Country (2021-2026)

Table 72. Middle East & Africa Antimicrobial Resistance Testing System Sales by Type
(2021-2026) & (K Units)

Table 73. Middle East & Africa Antimicrobial Resistance Testing System Sales by
Application (2021-2026) & (K Units)

Table 74. Key Market Drivers & Growth Opportunities of Antimicrobial Resistance
Testing System

Table 75. Key Market Challenges & Risks of Antimicrobial Resistance Testing System

Table 76. Key Industry Trends of Antimicrobial Resistance Testing System

Table 77. Antimicrobial Resistance Testing System Raw Material

Table 78. Key Suppliers of Raw Materials

Table 79. Antimicrobial Resistance Testing System Distributors List

Table 80. Antimicrobial Resistance Testing System Customer List

Table 81. Global Antimicrobial Resistance Testing System Sales Forecast by Region
(2027-2032) & (K Units)

Table 82. Global Antimicrobial Resistance Testing System Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 83. Americas Antimicrobial Resistance Testing System Sales Forecast by
Country (2027-2032) & (K Units)

Table 84. Americas Antimicrobial Resistance Testing System Annual Revenue Forecast
by Country (2027-2032) & (\$ millions)

Table 85. APAC Antimicrobial Resistance Testing System Sales Forecast by Region
(2027-2032) & (K Units)

Table 86. APAC Antimicrobial Resistance Testing System Annual Revenue Forecast by
Region (2027-2032) & (\$ millions)

Table 87. Europe Antimicrobial Resistance Testing System Sales Forecast by Country
(2027-2032) & (K Units)

Table 88. Europe Antimicrobial Resistance Testing System Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 89. Middle East & Africa Antimicrobial Resistance Testing System Sales Forecast by Country (2027-2032) & (K Units)

Table 90. Middle East & Africa Antimicrobial Resistance Testing System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. Global Antimicrobial Resistance Testing System Sales Forecast by Type (2027-2032) & (K Units)

Table 92. Global Antimicrobial Resistance Testing System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 93. Global Antimicrobial Resistance Testing System Sales Forecast by Application (2027-2032) & (K Units)

Table 94. Global Antimicrobial Resistance Testing System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 95. bioMérieux Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 96. bioMérieux Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 97. bioMérieux Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 98. bioMérieux Main Business

Table 99. bioMérieux Latest Developments

Table 100. BD Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 101. BD Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 102. BD Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 103. BD Main Business

Table 104. BD Latest Developments

Table 105. Thermo Fisher Scientific Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 106. Thermo Fisher Scientific Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 107. Thermo Fisher Scientific Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 108. Thermo Fisher Scientific Main Business

Table 109. Thermo Fisher Scientific Latest Developments

Table 110. Danaher Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 111. Danaher Antimicrobial Resistance Testing System Product Portfolios and

Specifications

Table 112. Danaher Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 113. Danaher Main Business

Table 114. Danaher Latest Developments

Table 115. Bruker Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 116. Bruker Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 117. Bruker Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 118. Bruker Main Business

Table 119. Bruker Latest Developments

Table 120. Accelerate Diagnostics Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 121. Accelerate Diagnostics Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 122. Accelerate Diagnostics Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 123. Accelerate Diagnostics Main Business

Table 124. Accelerate Diagnostics Latest Developments

Table 125. Liofilchem Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 126. Liofilchem Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 127. Liofilchem Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 128. Liofilchem Main Business

Table 129. Liofilchem Latest Developments

Table 130. Autobio Diagnostics Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 131. Autobio Diagnostics Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 132. Autobio Diagnostics Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 133. Autobio Diagnostics Main Business

Table 134. Autobio Diagnostics Latest Developments

Table 135. Scenker Biological Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 136. Scenker Biological Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 137. Scenker Biological Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 138. Scenker Biological Main Business

Table 139. Scenker Biological Latest Developments

Table 140. DL Biotech Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 141. DL Biotech Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 142. DL Biotech Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 143. DL Biotech Main Business

Table 144. DL Biotech Latest Developments

Table 145. Zhuhai Meihua Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 146. Zhuhai Meihua Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 147. Zhuhai Meihua Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 148. Zhuhai Meihua Main Business

Table 149. Zhuhai Meihua Latest Developments

Table 150. Mindray Medical Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 151. Mindray Medical Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 152. Mindray Medical Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 153. Mindray Medical Main Business

Table 154. Mindray Medical Latest Developments

Table 155. Hefei Hengxing Technology Basic Information, Antimicrobial Resistance Testing System Manufacturing Base, Sales Area and Its Competitors

Table 156. Hefei Hengxing Technology Antimicrobial Resistance Testing System Product Portfolios and Specifications

Table 157. Hefei Hengxing Technology Antimicrobial Resistance Testing System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 158. Hefei Hengxing Technology Main Business

Table 159. Hefei Hengxing Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Antimicrobial Resistance Testing System
- Figure 2. Antimicrobial Resistance Testing System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Antimicrobial Resistance Testing System Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Antimicrobial Resistance Testing System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Antimicrobial Resistance Testing System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Antimicrobial Resistance Testing System Sales Market Share by Country/Region (2025)
- Figure 10. Antimicrobial Resistance Testing System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Automated AST System
- Figure 12. Product Picture of Molecular Resistance Testing
- Figure 13. Product Picture of MALDI-TOF Linked AST
- Figure 14. Product Picture of Other
- Figure 15. Global Antimicrobial Resistance Testing System Sales Market Share by Type in 2026
- Figure 16. Global Antimicrobial Resistance Testing System Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Gram-Negative Bacteria
- Figure 18. Product Picture of Gram-Positive Bacteria
- Figure 19. Product Picture of Mycobacteria
- Figure 20. Product Picture of Fungal Resistance
- Figure 21. Product Picture of Other
- Figure 22. Global Antimicrobial Resistance Testing System Sales Market Share by Pathogen Type in 2026
- Figure 23. Global Antimicrobial Resistance Testing System Revenue Market Share by Pathogen Type (2021-2026)
- Figure 24. Product Picture of Hospital Microbiology Lab
- Figure 25. Product Picture of Reference Laboratory
- Figure 26. Product Picture of ICU And Emergency

Figure 27. Product Picture of Public Health Surveillance

Figure 28. Product Picture of Research Use

Figure 29. Product Picture of Other

Figure 30. Global Antimicrobial Resistance Testing System Sales Market Share by Use Setting in 2026

Figure 31. Global Antimicrobial Resistance Testing System Revenue Market Share by Use Setting (2021-2026)

Figure 32. Antimicrobial Resistance Testing System Consumed in Hospitals

Figure 33. Global Antimicrobial Resistance Testing System Market: Hospitals (2021-2026) & (K Units)

Figure 34. Antimicrobial Resistance Testing System Consumed in Third-Party Laboratories

Figure 35. Global Antimicrobial Resistance Testing System Market: Third-Party Laboratories (2021-2026) & (K Units)

Figure 36. Antimicrobial Resistance Testing System Consumed in CDC And Public Health

Figure 37. Global Antimicrobial Resistance Testing System Market: CDC And Public Health (2021-2026) & (K Units)

Figure 38. Antimicrobial Resistance Testing System Consumed in Pharmaceutical Research

Figure 39. Global Antimicrobial Resistance Testing System Market: Pharmaceutical Research (2021-2026) & (K Units)

Figure 40. Antimicrobial Resistance Testing System Consumed in Veterinary And Food Safety

Figure 41. Global Antimicrobial Resistance Testing System Market: Veterinary And Food Safety (2021-2026) & (K Units)

Figure 42. Antimicrobial Resistance Testing System Consumed in Other

Figure 43. Global Antimicrobial Resistance Testing System Market: Other (2021-2026) & (K Units)

Figure 44. Global Antimicrobial Resistance Testing System Sale Market Share by Application (2025)

Figure 45. Global Antimicrobial Resistance Testing System Revenue Market Share by Application in 2025

Figure 46. Antimicrobial Resistance Testing System Sales by Company in 2025 (K Units)

Figure 47. Global Antimicrobial Resistance Testing System Sales Market Share by Company in 2025

Figure 48. Antimicrobial Resistance Testing System Revenue by Company in 2025 (\$ millions)

Figure 49. Global Antimicrobial Resistance Testing System Revenue Market Share by Company in 2025

Figure 50. Global Antimicrobial Resistance Testing System Sales Market Share by Geographic Region (2021-2026)

Figure 51. Global Antimicrobial Resistance Testing System Revenue Market Share by Geographic Region in 2025

Figure 52. Americas Antimicrobial Resistance Testing System Sales 2021-2026 (K Units)

Figure 53. Americas Antimicrobial Resistance Testing System Revenue 2021-2026 (\$ millions)

Figure 54. APAC Antimicrobial Resistance Testing System Sales 2021-2026 (K Units)

Figure 55. APAC Antimicrobial Resistance Testing System Revenue 2021-2026 (\$ millions)

Figure 56. Europe Antimicrobial Resistance Testing System Sales 2021-2026 (K Units)

Figure 57. Europe Antimicrobial Resistance Testing System Revenue 2021-2026 (\$ millions)

Figure 58. Middle East & Africa Antimicrobial Resistance Testing System Sales 2021-2026 (K Units)

Figure 59. Middle East & Africa Antimicrobial Resistance Testing System Revenue 2021-2026 (\$ millions)

Figure 60. Americas Antimicrobial Resistance Testing System Sales Market Share by Country in 2025

Figure 61. Americas Antimicrobial Resistance Testing System Revenue Market Share by Country (2021-2026)

Figure 62. Americas Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)

Figure 63. Americas Antimicrobial Resistance Testing System Sales Market Share by Application (2021-2026)

Figure 64. United States Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 65. Canada Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 66. Mexico Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 67. Brazil Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 68. APAC Antimicrobial Resistance Testing System Sales Market Share by Region in 2025

Figure 69. APAC Antimicrobial Resistance Testing System Revenue Market Share by

Region (2021-2026)

Figure 70. APAC Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)

Figure 71. APAC Antimicrobial Resistance Testing System Sales Market Share by Application (2021-2026)

Figure 72. China Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 73. Japan Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Korea Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 75. Southeast Asia Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 76. India Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 77. Australia Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 78. China Taiwan Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 79. Europe Antimicrobial Resistance Testing System Sales Market Share by Country in 2025

Figure 80. Europe Antimicrobial Resistance Testing System Revenue Market Share by Country (2021-2026)

Figure 81. Europe Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)

Figure 82. Europe Antimicrobial Resistance Testing System Sales Market Share by Application (2021-2026)

Figure 83. Germany Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 84. France Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 85. UK Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 86. Italy Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 87. Russia Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 88. Middle East & Africa Antimicrobial Resistance Testing System Sales Market Share by Country (2021-2026)

Figure 89. Middle East & Africa Antimicrobial Resistance Testing System Sales Market Share by Type (2021-2026)

Figure 90. Middle East & Africa Antimicrobial Resistance Testing System Sales Market Share by Application (2021-2026)

Figure 91. Egypt Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 92. South Africa Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 93. Israel Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 94. Turkey Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 95. GCC Countries Antimicrobial Resistance Testing System Revenue Growth 2021-2026 (\$ millions)

Figure 96. Manufacturing Cost Structure Analysis of Antimicrobial Resistance Testing System in 2026

Figure 97. Manufacturing Process Analysis of Antimicrobial Resistance Testing System

Figure 98. Industry Chain Structure of Antimicrobial Resistance Testing System

Figure 99. Channels of Distribution

Figure 100. Global Antimicrobial Resistance Testing System Sales Market Forecast by Region (2027-2032)

Figure 101. Global Antimicrobial Resistance Testing System Revenue Market Share Forecast by Region (2027-2032)

Figure 102. Global Antimicrobial Resistance Testing System Sales Market Share Forecast by Type (2027-2032)

Figure 103. Global Antimicrobial Resistance Testing System Revenue Market Share Forecast by Type (2027-2032)

Figure 104. Global Antimicrobial Resistance Testing System Sales Market Share Forecast by Application (2027-2032)

Figure 105. Global Antimicrobial Resistance Testing System Revenue Market Share Forecast by Application (2027-2032)

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