

Global Antimicrobial Resistance Testing System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Antimicrobial Resistance Testing System market size was valued at US\$ 1915 million in 2025 and is forecast to a readjusted size of US\$ 2796 million by 2032 with a CAGR of 5.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Antimicrobial Resistance Testing System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Antimicrobial Resistance Testing System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Antimicrobial Resistance Testing System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Antimicrobial Resistance Testing System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Antimicrobial Resistance Testing System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Antimicrobial Resistance Testing System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Antimicrobial Resistance Testing System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include bioMérieux, BD, Thermo Fisher Scientific, Danaher, Bruker, Accelerate Diagnostics, Liofilchem, Autobio Diagnostics, Scenker Biological, DL Biotech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Antimicrobial Resistance Testing System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Automated AST System

Molecular Resistance Testing

MALDI-TOF Linked AST

Other

Market segment by Pathogen Type

Gram-Negative Bacteria

Gram-Positive Bacteria

Mycobacteria

Fungal Resistance

Other

Market segment by Use Setting

Hospital Microbiology Lab

Reference Laboratory

ICU And Emergency

Public Health Surveillance

Research Use

Other

Market segment by Application

Hospitals

Third-Party Laboratories

CDC And Public Health

Pharmaceutical Research

Veterinary And Food Safety

Other

Major players covered

bioMérieux

BD

Thermo Fisher Scientific

Danaher

Bruker

Accelerate Diagnostics

Liofilchem

Autobio Diagnostics

Scenker Biological

DL Biotech

Zhuhai Meihua

Mindray Medical

Hefei Hengxing Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Antimicrobial Resistance Testing System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Antimicrobial Resistance Testing System, with price, sales quantity, revenue, and global market share of Antimicrobial Resistance Testing System from 2021 to 2026.

Chapter 3, the Antimicrobial Resistance Testing System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Antimicrobial Resistance Testing System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Antimicrobial Resistance Testing System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Antimicrobial Resistance Testing System.

Chapter 14 and 15, to describe Antimicrobial Resistance Testing System sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Antimicrobial Resistance Testing System Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Automated AST System

1.3.3 Molecular Resistance Testing

1.3.4 MALDI-TOF Linked AST

1.3.5 Other

1.4 Market Analysis by Pathogen Type

1.4.1 Overview: Global Antimicrobial Resistance Testing System Consumption Value by Pathogen Type: 2021 Versus 2025 Versus 2032

1.4.2 Gram-Negative Bacteria

1.4.3 Gram-Positive Bacteria

1.4.4 Mycobacteria

1.4.5 Fungal Resistance

1.4.6 Other

1.5 Market Analysis by Use Setting

1.5.1 Overview: Global Antimicrobial Resistance Testing System Consumption Value by Use Setting: 2021 Versus 2025 Versus 2032

1.5.2 Hospital Microbiology Lab

1.5.3 Reference Laboratory

1.5.4 ICU And Emergency

1.5.5 Public Health Surveillance

1.5.6 Research Use

1.5.7 Other

1.6 Market Analysis by Application

1.6.1 Overview: Global Antimicrobial Resistance Testing System Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Hospitals

1.6.3 Third-Party Laboratories

1.6.4 CDC And Public Health

1.6.5 Pharmaceutical Research

1.6.6 Veterinary And Food Safety

1.6.7 Other

1.7 Global Antimicrobial Resistance Testing System Market Size & Forecast

1.7.1 Global Antimicrobial Resistance Testing System Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Antimicrobial Resistance Testing System Sales Quantity (2021-2032)

1.7.3 Global Antimicrobial Resistance Testing System Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 bioMérieux

2.1.1 bioMérieux Details

2.1.2 bioMérieux Major Business

2.1.3 bioMérieux Antimicrobial Resistance Testing System Product and Services

2.1.4 bioMérieux Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 bioMérieux Recent Developments/Updates

2.2 BD

2.2.1 BD Details

2.2.2 BD Major Business

2.2.3 BD Antimicrobial Resistance Testing System Product and Services

2.2.4 BD Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 BD Recent Developments/Updates

2.3 Thermo Fisher Scientific

2.3.1 Thermo Fisher Scientific Details

2.3.2 Thermo Fisher Scientific Major Business

2.3.3 Thermo Fisher Scientific Antimicrobial Resistance Testing System Product and Services

2.3.4 Thermo Fisher Scientific Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Thermo Fisher Scientific Recent Developments/Updates

2.4 Danaher

2.4.1 Danaher Details

2.4.2 Danaher Major Business

2.4.3 Danaher Antimicrobial Resistance Testing System Product and Services

2.4.4 Danaher Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Danaher Recent Developments/Updates

2.5 Bruker

2.5.1 Bruker Details

- 2.5.2 Bruker Major Business
- 2.5.3 Bruker Antimicrobial Resistance Testing System Product and Services
- 2.5.4 Bruker Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 Bruker Recent Developments/Updates
- 2.6 Accelerate Diagnostics
 - 2.6.1 Accelerate Diagnostics Details
 - 2.6.2 Accelerate Diagnostics Major Business
 - 2.6.3 Accelerate Diagnostics Antimicrobial Resistance Testing System Product and Services
 - 2.6.4 Accelerate Diagnostics Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Accelerate Diagnostics Recent Developments/Updates
- 2.7 Liofilchem
 - 2.7.1 Liofilchem Details
 - 2.7.2 Liofilchem Major Business
 - 2.7.3 Liofilchem Antimicrobial Resistance Testing System Product and Services
 - 2.7.4 Liofilchem Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Liofilchem Recent Developments/Updates
- 2.8 Autobio Diagnostics
 - 2.8.1 Autobio Diagnostics Details
 - 2.8.2 Autobio Diagnostics Major Business
 - 2.8.3 Autobio Diagnostics Antimicrobial Resistance Testing System Product and Services
 - 2.8.4 Autobio Diagnostics Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Autobio Diagnostics Recent Developments/Updates
- 2.9 Scenker Biological
 - 2.9.1 Scenker Biological Details
 - 2.9.2 Scenker Biological Major Business
 - 2.9.3 Scenker Biological Antimicrobial Resistance Testing System Product and Services
 - 2.9.4 Scenker Biological Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Scenker Biological Recent Developments/Updates
- 2.10 DL Biotech
 - 2.10.1 DL Biotech Details
 - 2.10.2 DL Biotech Major Business

- 2.10.3 DL Biotech Antimicrobial Resistance Testing System Product and Services
- 2.10.4 DL Biotech Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 DL Biotech Recent Developments/Updates
- 2.11 Zhuhai Meihua
 - 2.11.1 Zhuhai Meihua Details
 - 2.11.2 Zhuhai Meihua Major Business
 - 2.11.3 Zhuhai Meihua Antimicrobial Resistance Testing System Product and Services
 - 2.11.4 Zhuhai Meihua Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Zhuhai Meihua Recent Developments/Updates
- 2.12 Mindray Medical
 - 2.12.1 Mindray Medical Details
 - 2.12.2 Mindray Medical Major Business
 - 2.12.3 Mindray Medical Antimicrobial Resistance Testing System Product and Services
 - 2.12.4 Mindray Medical Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Mindray Medical Recent Developments/Updates
- 2.13 Hefei Hengxing Technology
 - 2.13.1 Hefei Hengxing Technology Details
 - 2.13.2 Hefei Hengxing Technology Major Business
 - 2.13.3 Hefei Hengxing Technology Antimicrobial Resistance Testing System Product and Services
 - 2.13.4 Hefei Hengxing Technology Antimicrobial Resistance Testing System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Hefei Hengxing Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ANTIMICROBIAL RESISTANCE TESTING SYSTEM BY MANUFACTURER

- 3.1 Global Antimicrobial Resistance Testing System Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Antimicrobial Resistance Testing System Revenue by Manufacturer (2021-2026)
- 3.3 Global Antimicrobial Resistance Testing System Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Antimicrobial Resistance Testing System by

Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Antimicrobial Resistance Testing System Manufacturer Market Share in 2025

3.4.3 Top 6 Antimicrobial Resistance Testing System Manufacturer Market Share in 2025

3.5 Antimicrobial Resistance Testing System Market: Overall Company Footprint Analysis

3.5.1 Antimicrobial Resistance Testing System Market: Region Footprint

3.5.2 Antimicrobial Resistance Testing System Market: Company Product Type Footprint

3.5.3 Antimicrobial Resistance Testing System Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Antimicrobial Resistance Testing System Market Size by Region

4.1.1 Global Antimicrobial Resistance Testing System Sales Quantity by Region (2021-2032)

4.1.2 Global Antimicrobial Resistance Testing System Consumption Value by Region (2021-2032)

4.1.3 Global Antimicrobial Resistance Testing System Average Price by Region (2021-2032)

4.2 North America Antimicrobial Resistance Testing System Consumption Value (2021-2032)

4.3 Europe Antimicrobial Resistance Testing System Consumption Value (2021-2032)

4.4 Asia-Pacific Antimicrobial Resistance Testing System Consumption Value (2021-2032)

4.5 South America Antimicrobial Resistance Testing System Consumption Value (2021-2032)

4.6 Middle East & Africa Antimicrobial Resistance Testing System Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2032)

5.2 Global Antimicrobial Resistance Testing System Consumption Value by Type

(2021-2032)

5.3 Global Antimicrobial Resistance Testing System Average Price by Type

(2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Antimicrobial Resistance Testing System Sales Quantity by Application

(2021-2032)

6.2 Global Antimicrobial Resistance Testing System Consumption Value by Application

(2021-2032)

6.3 Global Antimicrobial Resistance Testing System Average Price by Application

(2021-2032)

7 NORTH AMERICA

7.1 North America Antimicrobial Resistance Testing System Sales Quantity by Type

(2021-2032)

7.2 North America Antimicrobial Resistance Testing System Sales Quantity by

Application (2021-2032)

7.3 North America Antimicrobial Resistance Testing System Market Size by Country

7.3.1 North America Antimicrobial Resistance Testing System Sales Quantity by
Country (2021-2032)

7.3.2 North America Antimicrobial Resistance Testing System Consumption Value by
Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Antimicrobial Resistance Testing System Sales Quantity by Type

(2021-2032)

8.2 Europe Antimicrobial Resistance Testing System Sales Quantity by Application

(2021-2032)

8.3 Europe Antimicrobial Resistance Testing System Market Size by Country

8.3.1 Europe Antimicrobial Resistance Testing System Sales Quantity by Country
(2021-2032)

8.3.2 Europe Antimicrobial Resistance Testing System Consumption Value by Country
(2021-2032)

- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Antimicrobial Resistance Testing System Market Size by Region
 - 9.3.1 Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Antimicrobial Resistance Testing System Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2032)
- 10.2 South America Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2032)
- 10.3 South America Antimicrobial Resistance Testing System Market Size by Country
 - 10.3.1 South America Antimicrobial Resistance Testing System Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Antimicrobial Resistance Testing System Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Antimicrobial Resistance Testing System Market Size by Country

11.3.1 Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Antimicrobial Resistance Testing System Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Antimicrobial Resistance Testing System Market Drivers

12.2 Antimicrobial Resistance Testing System Market Restraints

12.3 Antimicrobial Resistance Testing System Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Antimicrobial Resistance Testing System and Key Manufacturers

13.2 Manufacturing Costs Percentage of Antimicrobial Resistance Testing System

13.3 Antimicrobial Resistance Testing System Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Antimicrobial Resistance Testing System Typical Distributors

14.3 Antimicrobial Resistance Testing System Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Antimicrobial Resistance Testing System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Antimicrobial Resistance Testing System Consumption Value by Pathogen Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Antimicrobial Resistance Testing System Consumption Value by Use Setting, (USD Million), 2021 & 2025 & 2032

Table 4. Global Antimicrobial Resistance Testing System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. bioMérieux Basic Information, Manufacturing Base and Competitors

Table 6. bioMérieux Major Business

Table 7. bioMérieux Antimicrobial Resistance Testing System Product and Services

Table 8. bioMérieux Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. bioMérieux Recent Developments/Updates

Table 10. BD Basic Information, Manufacturing Base and Competitors

Table 11. BD Major Business

Table 12. BD Antimicrobial Resistance Testing System Product and Services

Table 13. BD Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. BD Recent Developments/Updates

Table 15. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 16. Thermo Fisher Scientific Major Business

Table 17. Thermo Fisher Scientific Antimicrobial Resistance Testing System Product and Services

Table 18. Thermo Fisher Scientific Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Thermo Fisher Scientific Recent Developments/Updates

Table 20. Danaher Basic Information, Manufacturing Base and Competitors

Table 21. Danaher Major Business

Table 22. Danaher Antimicrobial Resistance Testing System Product and Services

Table 23. Danaher Antimicrobial Resistance Testing System Sales Quantity (K Units),

Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Danaher Recent Developments/Updates

Table 25. Bruker Basic Information, Manufacturing Base and Competitors

Table 26. Bruker Major Business

Table 27. Bruker Antimicrobial Resistance Testing System Product and Services

Table 28. Bruker Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Bruker Recent Developments/Updates

Table 30. Accelerate Diagnostics Basic Information, Manufacturing Base and Competitors

Table 31. Accelerate Diagnostics Major Business

Table 32. Accelerate Diagnostics Antimicrobial Resistance Testing System Product and Services

Table 33. Accelerate Diagnostics Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Accelerate Diagnostics Recent Developments/Updates

Table 35. Liofilchem Basic Information, Manufacturing Base and Competitors

Table 36. Liofilchem Major Business

Table 37. Liofilchem Antimicrobial Resistance Testing System Product and Services

Table 38. Liofilchem Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Liofilchem Recent Developments/Updates

Table 40. Autobio Diagnostics Basic Information, Manufacturing Base and Competitors

Table 41. Autobio Diagnostics Major Business

Table 42. Autobio Diagnostics Antimicrobial Resistance Testing System Product and Services

Table 43. Autobio Diagnostics Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Autobio Diagnostics Recent Developments/Updates

Table 45. Scenker Biological Basic Information, Manufacturing Base and Competitors

Table 46. Scenker Biological Major Business

Table 47. Scenker Biological Antimicrobial Resistance Testing System Product and Services

Table 48. Scenker Biological Antimicrobial Resistance Testing System Sales Quantity

(K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Scenker Biological Recent Developments/Updates

Table 50. DL Biotech Basic Information, Manufacturing Base and Competitors

Table 51. DL Biotech Major Business

Table 52. DL Biotech Antimicrobial Resistance Testing System Product and Services

Table 53. DL Biotech Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. DL Biotech Recent Developments/Updates

Table 55. Zhuhai Meihua Basic Information, Manufacturing Base and Competitors

Table 56. Zhuhai Meihua Major Business

Table 57. Zhuhai Meihua Antimicrobial Resistance Testing System Product and Services

Table 58. Zhuhai Meihua Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Zhuhai Meihua Recent Developments/Updates

Table 60. Mindray Medical Basic Information, Manufacturing Base and Competitors

Table 61. Mindray Medical Major Business

Table 62. Mindray Medical Antimicrobial Resistance Testing System Product and Services

Table 63. Mindray Medical Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Mindray Medical Recent Developments/Updates

Table 65. Hefei Hengxing Technology Basic Information, Manufacturing Base and Competitors

Table 66. Hefei Hengxing Technology Major Business

Table 67. Hefei Hengxing Technology Antimicrobial Resistance Testing System Product and Services

Table 68. Hefei Hengxing Technology Antimicrobial Resistance Testing System Sales Quantity (K Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Hefei Hengxing Technology Recent Developments/Updates

Table 70. Global Antimicrobial Resistance Testing System Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 71. Global Antimicrobial Resistance Testing System Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Antimicrobial Resistance Testing System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)
Table 73. Market Position of Manufacturers in Antimicrobial Resistance Testing System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 74. Head Office and Antimicrobial Resistance Testing System Production Site of Key Manufacturer
Table 75. Antimicrobial Resistance Testing System Market: Company Product Type Footprint
Table 76. Antimicrobial Resistance Testing System Market: Company Product Application Footprint
Table 77. Antimicrobial Resistance Testing System New Market Entrants and Barriers to Market Entry
Table 78. Antimicrobial Resistance Testing System Mergers, Acquisition, Agreements, and Collaborations
Table 79. Global Antimicrobial Resistance Testing System Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 80. Global Antimicrobial Resistance Testing System Sales Quantity by Region (2021-2026) & (K Units)
Table 81. Global Antimicrobial Resistance Testing System Sales Quantity by Region (2027-2032) & (K Units)
Table 82. Global Antimicrobial Resistance Testing System Consumption Value by Region (2021-2026) & (USD Million)
Table 83. Global Antimicrobial Resistance Testing System Consumption Value by Region (2027-2032) & (USD Million)
Table 84. Global Antimicrobial Resistance Testing System Average Price by Region (2021-2026) & (K US\$/Unit)
Table 85. Global Antimicrobial Resistance Testing System Average Price by Region (2027-2032) & (K US\$/Unit)
Table 86. Global Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2026) & (K Units)
Table 87. Global Antimicrobial Resistance Testing System Sales Quantity by Type (2027-2032) & (K Units)
Table 88. Global Antimicrobial Resistance Testing System Consumption Value by Type (2021-2026) & (USD Million)
Table 89. Global Antimicrobial Resistance Testing System Consumption Value by Type (2027-2032) & (USD Million)
Table 90. Global Antimicrobial Resistance Testing System Average Price by Type (2021-2026) & (K US\$/Unit)
Table 91. Global Antimicrobial Resistance Testing System Average Price by Type

(2027-2032) & (K US\$/Unit)

Table 92. Global Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2026) & (K Units)

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

Table 94. Global Antimicrobial Resistance Testing System Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global Antimicrobial Resistance Testing System Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global Antimicrobial Resistance Testing System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 97. Global Antimicrobial Resistance Testing System Average Price by Application (2027-2032) & (K US\$/Unit)

Table 98. North America Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2026) & (K Units)

Table 99. North America Antimicrobial Resistance Testing System Sales Quantity by Type (2027-2032) & (K Units)

Table 100. North America Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2026) & (K Units)

Table 101. North America Antimicrobial Resistance Testing System Sales Quantity by Application (2027-2032) & (K Units)

Table 102. North America Antimicrobial Resistance Testing System Sales Quantity by Country (2021-2026) & (K Units)

Table 103. North America Antimicrobial Resistance Testing System Sales Quantity by Country (2027-2032) & (K Units)

Table 104. North America Antimicrobial Resistance Testing System Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Antimicrobial Resistance Testing System Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2026) & (K Units)

Table 107. Europe Antimicrobial Resistance Testing System Sales Quantity by Type (2027-2032) & (K Units)

Table 108. Europe Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2026) & (K Units)

Table 109. Europe Antimicrobial Resistance Testing System Sales Quantity by Application (2027-2032) & (K Units)

Table 110. Europe Antimicrobial Resistance Testing System Sales Quantity by Country (2021-2026) & (K Units)

Table 111. Europe Antimicrobial Resistance Testing System Sales Quantity by Country (2027-2032) & (K Units)

Table 112. Europe Antimicrobial Resistance Testing System Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe Antimicrobial Resistance Testing System Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2026) & (K Units)

Table 115. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Type (2027-2032) & (K Units)

Table 116. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2026) & (K Units)

Table 117. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Application (2027-2032) & (K Units)

Table 118. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Region (2021-2026) & (K Units)

Table 119. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity by Region (2027-2032) & (K Units)

Table 120. Asia-Pacific Antimicrobial Resistance Testing System Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Antimicrobial Resistance Testing System Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America Antimicrobial Resistance Testing System Sales Quantity by Type (2021-2026) & (K Units)

Table 123. South America Antimicrobial Resistance Testing System Sales Quantity by Type (2027-2032) & (K Units)

Table 124. South America Antimicrobial Resistance Testing System Sales Quantity by Application (2021-2026) & (K Units)

Table 125. South America Antimicrobial Resistance Testing System Sales Quantity by Application (2027-2032) & (K Units)

Table 126. South America Antimicrobial Resistance Testing System Sales Quantity by Country (2021-2026) & (K Units)

Table 127. South America Antimicrobial Resistance Testing System Sales Quantity by Country (2027-2032) & (K Units)

Table 128. South America Antimicrobial Resistance Testing System Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Antimicrobial Resistance Testing System Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Type (2021-2026) & (K Units)

Table 131. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Type (2027-2032) & (K Units)

Table 132. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Application (2021-2026) & (K Units)

Table 133. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Application (2027-2032) & (K Units)

Table 134. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Country (2021-2026) & (K Units)

Table 135. Middle East & Africa Antimicrobial Resistance Testing System Sales

Quantity by Country (2027-2032) & (K Units)

Table 136. Middle East & Africa Antimicrobial Resistance Testing System Consumption

Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Antimicrobial Resistance Testing System Consumption

Value by Country (2027-2032) & (USD Million)

Table 138. Antimicrobial Resistance Testing System Raw Material

Table 139. Key Manufacturers of Antimicrobial Resistance Testing System Raw
Materials

Table 140. Antimicrobial Resistance Testing System Typical Distributors

Table 141. Antimicrobial Resistance Testing System Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Antimicrobial Resistance Testing System Picture

Figure 2. Global Antimicrobial Resistance Testing System Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Antimicrobial Resistance Testing System Revenue Market Share by Type in 2025

Figure 4. Automated AST System Examples

Figure 5. Molecular Resistance Testing Examples

Figure 6. MALDI-TOF Linked AST Examples

Figure 7. Other Examples

Figure 8. Global Antimicrobial Resistance Testing System Revenue by Pathogen Type, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Antimicrobial Resistance Testing System Revenue Market Share by Pathogen Type in 2025

Figure 10. Gram-Negative Bacteria Examples

Figure 11. Gram-Positive Bacteria Examples

Figure 12. Mycobacteria Examples

Figure 13. Fungal Resistance Examples

Figure 14. Other Examples

Figure 15. Global Antimicrobial Resistance Testing System Revenue by Use Setting, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Antimicrobial Resistance Testing System Revenue Market Share by Use Setting in 2025

Figure 17. Hospital Microbiology Lab Examples

Figure 18. Reference Laboratory Examples

Figure 19. ICU And Emergency Examples

Figure 20. Public Health Surveillance Examples

Figure 21. Research Use Examples

Figure 22. Other Examples

Figure 23. Global Antimicrobial Resistance Testing System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 24. Global Antimicrobial Resistance Testing System Revenue Market Share by Application in 2025

Figure 25. Hospitals Examples

Figure 26. Third-Party Laboratories Examples

Figure 27. CDC And Public Health Examples

Figure 28. Pharmaceutical Research Examples

Figure 29. Veterinary And Food Safety Examples

Figure 30. Other Examples

Figure 31. Global Antimicrobial Resistance Testing System Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 32. Global Antimicrobial Resistance Testing System Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 33. Global Antimicrobial Resistance Testing System Sales Quantity (2021-2032) & (K Units)

Figure 34. Global Antimicrobial Resistance Testing System Price (2021-2032) & (K US\$/Unit)

Figure 35. Global Antimicrobial Resistance Testing System Sales Quantity Market Share by Manufacturer in 2025

Figure 36. Global Antimicrobial Resistance Testing System Revenue Market Share by Manufacturer in 2025

Figure 37. Producer Shipments of Antimicrobial Resistance Testing System by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Antimicrobial Resistance Testing System Manufacturer (Revenue) Market Share in 2025

Figure 39. Top 6 Antimicrobial Resistance Testing System Manufacturer (Revenue) Market Share in 2025

Figure 40. Global Antimicrobial Resistance Testing System Sales Quantity Market Share by Region (2021-2032)

Figure 41. Global Antimicrobial Resistance Testing System Consumption Value Market Share by Region (2021-2032)

Figure 42. North America Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 43. Europe Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 44. Asia-Pacific Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 45. South America Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 46. Middle East & Africa Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 47. Global Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 48. Global Antimicrobial Resistance Testing System Consumption Value Market Share by Type (2021-2032)

Figure 49. Global Antimicrobial Resistance Testing System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 50. Global Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Antimicrobial Resistance Testing System Revenue Market Share by Application (2021-2032)

Figure 52. Global Antimicrobial Resistance Testing System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 53. North America Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 54. North America Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Antimicrobial Resistance Testing System Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Antimicrobial Resistance Testing System Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 61. Europe Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Antimicrobial Resistance Testing System Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Antimicrobial Resistance Testing System Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 65. France Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Antimicrobial Resistance Testing System Consumption Value

(2021-2032) & (USD Million)

Figure 69. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 70. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Antimicrobial Resistance Testing System Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Antimicrobial Resistance Testing System Consumption Value Market Share by Region (2021-2032)

Figure 73. China Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 76. India Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 80. South America Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Antimicrobial Resistance Testing System Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Antimicrobial Resistance Testing System Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity Market Share by Type (2021-2032)

Figure 86. Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Antimicrobial Resistance Testing System Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Antimicrobial Resistance Testing System Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 90. Egypt Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 92. South Africa Antimicrobial Resistance Testing System Consumption Value (2021-2032) & (USD Million)

Figure 93. Antimicrobial Resistance Testing System Market Drivers

Figure 94. Antimicrobial Resistance Testing System Market Restraints

Figure 95. Antimicrobial Resistance Testing System Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Antimicrobial Resistance Testing System in 2025

Figure 98. Manufacturing Process Analysis of Antimicrobial Resistance Testing System

Figure 99. Antimicrobial Resistance Testing System Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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