

# Global Fully Automated Antimicrobial Susceptibility Testing System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fully Automated Antimicrobial Susceptibility Testing System market size is expected to reach \$ 1591 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global production capacity of fully automated antimicrobial susceptibility testing systems reached approximately 10,000 units, with actual output around 7,000 units. The average selling price was about USD 150,000 per unit, and leading manufacturers achieved gross margins of 45 %–60 %. A fully automated antimicrobial susceptibility testing (AST) system is an integrated laboratory instrument that automates the determination of microbial susceptibility or resistance to antibiotics by preparing samples, incubating cultures, measuring minimum inhibitory concentrations (MICs), and interpreting results with minimal human intervention. These systems enhance throughput, reduce manual error, and provide consistent, rapid results for clinical decision-making.

Upstream suppliers provide precision optics, incubators, microfluidic consumables, reagents, and electronic control systems required for fully automated AST instruments. Midstream manufacturers integrate these into systems that automate sample preparation, incubation, MIC determination, and digital data interpretation. Leading producers include global diagnostics companies such as bioMérieux, BD (e.g., Phoenix™), Thermo Fisher Scientific (e.g., Sensititre™ AST), and others with automated AST offerings. Downstream distribution channels include medical equipment distributors, direct hospital procurement, and laboratory networks. End users are clinical microbiology laboratories in hospitals, reference labs, and public health facilities requiring rapid, reproducible antimicrobial susceptibility data to guide antibiotic therapy

and manage antimicrobial resistance.

The fully automated antimicrobial susceptibility testing (AST) system market is expanding as the global need for rapid, accurate antibiotic susceptibility data intensifies amid rising antimicrobial resistance and healthcare demands. Automated AST systems streamline workflows by integrating incubation, MIC measurement, and digital interpretation, reducing labor and increasing throughput compared to manual methods. Adoption is strongest in hospitals and large diagnostic laboratories in North America and Europe, driven by stringent clinical guidelines and advanced laboratory infrastructure. Asia Pacific is emerging rapidly with growing healthcare investments and rising infectious disease diagnostics. Innovations include faster MIC reporting, AI-assisted data interpretation, and microfluidic techniques that shorten turnaround time. Despite high upfront costs, automated systems offer improved efficiency and reproducibility, positioning them as essential tools in antimicrobial stewardship and precision medicine strategies.

This report studies the global Fully Automated Antimicrobial Susceptibility Testing System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fully Automated Antimicrobial Susceptibility Testing System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fully Automated Antimicrobial Susceptibility Testing System that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Fully Automated Antimicrobial Susceptibility Testing System total production and demand, 2021-2032, (Units)

Global Fully Automated Antimicrobial Susceptibility Testing System total production value, 2021-2032, (USD Million)

Global Fully Automated Antimicrobial Susceptibility Testing System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fully Automated Antimicrobial Susceptibility Testing System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fully Automated Antimicrobial Susceptibility Testing System domestic production, consumption, key domestic manufacturers and share

Global Fully Automated Antimicrobial Susceptibility Testing System production by

manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fully Automated Antimicrobial Susceptibility Testing System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fully Automated Antimicrobial Susceptibility Testing System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fully Automated Antimicrobial Susceptibility Testing System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include bioMérieux, Thermo Fisher Scientific, BD, Bruker, Beckman Coulter, Accelera?te Diagnostics, Roche Diagnostics, Synbiosis, Mindray, Antobio, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fully Automated Antimicrobial Susceptibility Testing System market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fully Automated Antimicrobial Susceptibility Testing System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fully Automated Antimicrobial Susceptibility Testing System Market,  
Segmentation by Type:

Optical Density-Based

Fluorescence-Based

Others

Global Fully Automated Antimicrobial Susceptibility Testing System Market,  
Segmentation by Target Microorganism:

Bacterial

Fungal

Global Fully Automated Antimicrobial Susceptibility Testing System Market,  
Segmentation by Application:

Hospitals

Pharmaceutical Companies

Others

Companies Profiled:

bioMerieux

Thermo Fisher Scientific

BD

Bruker

Beckman Coulter

Accelerate Diagnostics

Roche Diagnostics

Synbiosis

Mindray

Antobio

Deer Medical

### **Key Questions Answered:**

1. How big is the global Fully Automated Antimicrobial Susceptibility Testing System market?
2. What is the demand of the global Fully Automated Antimicrobial Susceptibility Testing System market?
3. What is the year over year growth of the global Fully Automated Antimicrobial Susceptibility Testing System market?
4. What is the production and production value of the global Fully Automated Antimicrobial Susceptibility Testing System market?
5. Who are the key producers in the global Fully Automated Antimicrobial Susceptibility Testing System market?
6. What are the growth factors driving the market demand?

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