

Antimicrobial Susceptibility Testing Market - Global Industry Size, Share, Trends, Competition, Opportunity, and Forecast, 2018-2028 Segmented By Product (Manual Tests, (MIC Strips, Susceptibility Testing Disks, Susceptibility Plates) Automated Instruments, and Consumables & Media), By Technique (Automated AST, Etest Method, Dilution, Disk Diffusion, and Others), By Application (Drug Development, Susceptibility Testing, and Others), By End User (Hospitals, Diagnostic Laboratories, BioTechnique & Pharmaceutical Companies, and Others), By Region and Competition By Type (Bladder, Piston, Diaphragm, and Spring), By Application (Blow Out Preventers (BOP), Mud Pumps, Offshore Rigs, and Others), By Deployment (Onshore, Offshore), By Region and Competition

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Abstracts

Antimicrobial susceptibility testing (AST) is a laboratory procedure used to determine the susceptibility or resistance of a bacterial or fungal isolate to various antimicrobial agents. In-vitro antimicrobial susceptibility testing can be performed using various type of formats such as disk diffusion, agar dilution, broth microdilution, broth macrodilution, and a concentration gradient test. The results of Antimicrobial Susceptibility Testing

(AST) are used to guide the choice of appropriate antimicrobial therapy for the patient. Susceptibility results are reported as the minimum inhibitory concentration (MIC), which is the lowest concentration of the antimicrobial agent that inhibits the growth of the organism. Several characteristics such as whether the organism is susceptible, intermediate, or resistant to the antimicrobial agent can be determined using MIC values. According to a report by the World Health Organization (WHO), antimicrobial resistance is a significant threat to global health, and it is estimated that by 2050, it could cause more deaths than cancer. The market for antimicrobial susceptibility testing is driven by the increase in prevalence of infectious diseases. Several infectious disease outbreaks such as Shigella, Neisseria gonorrhoeae, Neisseria meningitides, and Salmonella serotype typhi which has been attributed to lack of water supply, sanitation, and hygiene are rising the demand for antimicrobial susceptibility testing in the forecast period. Moreover, increase in geriatric population across various parts of the country along with certain type of diseases influenza, pneumonia, shingles, and others which are associated with them in their elder age is further expected to propel the growth of global antimicrobial susceptibility testing market in the forecast period.

Increase in Prevalence of Infectious Diseases

Infectious diseases are certain kind of disorders caused by pathogenic microorganisms, such as bacteria, viruses, fungi, parasites, and prions. These microorganisms can invade the human body, multiply, and cause disease by damaging tissues, secreting toxins, or triggering an immune response that results in inflammation. Influenza, malaria, tuberculosis, dengue, and others are some of the most commonly prevailing infectious diseases across the world. Antimicrobial susceptibility testing is a critical tool for determining the appropriate antimicrobial therapy for infectious diseases. When a patient gets affected with infectious disease, sample of the bacteria is taken and is sent to the laboratory for antimicrobial susceptibility testing. Results obtained from the test are used to guide the selection of an appropriate antibiotic for treating the patient's infection. In recent times, COVID-19 pandemic caused by the SARS-CoV-2 virus have emerged as the leading infectious disease affecting many people across the world. According to the report published by Worldometer in 2023, it has been observed that in 2021 around 106,771,290 cases of COVID-19 were reported in United States of America causing 1,162,471 deaths, followed by 44,971,469 cases of COVID-19 in India causing 531,692 deaths, 40,021,949 cases of COVID-19 in France leading to 166,811 deaths, and so on. Pneumonia is the second most common infectious diseases prevailing in various developing countries across the world. As per the report presented by UNICEF in 2019, it has been concluded that pneumonia kills more children than any

other infectious disease, claiming the lives of over 700,000 children under five every year, or around 2,000 every day. This includes over 200,000 newborns. Globally, there are over 1,400 cases of pneumonia per 100,000 children, or 1 case per 71 children every year, with the greatest incidence occurring in South Asia (2,500 cases per 100,000 children) and West and Central Africa (1,620 cases per 100,000 children). Moreover, growing dependence of people on antimicrobial susceptibility testing for prevention of these diseases is further expected to register an impressive growth to global antimicrobial susceptibility testing market in the forecast period.

Growth in Geriatric Population

Growth in geriatric population across various parts of the world is also one of the significant drivers of global antimicrobial susceptibility testing market in the forecast period. This is because the elderly population is more vulnerable to infectious diseases, and their weakened immune systems make them more susceptible to bacterial infections. Improvement in healthcare and medical technology have led to longer life expectancies among geriatric people which is thereby growing the demand of antimicrobial susceptibility testing among them to stop the development of infection in their body at early stage. Influenza, shingles, tuberculosis, gastrointestinal infections, and urinary tract infections are some of the diseases which effects most of the people after 65 years of age. According to the report published by Population Reference Bureau (PRB) based on countries with the oldest populations in the world, it has been concluded that Japan is the foremost country in the world accounting for around 28.2% of geriatric people out of total population, followed by Italy with 22.8% of geriatric population, Greece, and Portugal with 21.8 %, and Germany with 21.4% of geriatric people out of the total population. Henceforth, growing ratio of geriatric population in various developing countries across the globe and growing prevalence of diseases associated with people during their elder age is also expected to bolster the growth of global antimicrobial susceptibility testing market in upcoming years.

Market Segmentation

The global antimicrobial susceptibility testing market is segmented based on product, technique, application, end user, company, and region. In terms of product, the antimicrobial susceptibility testing market is categorized into manual tests, (MIC strips, susceptibility testing disks, susceptibility plates), automated instruments, and consumables & media. Based on technique, global antimicrobial susceptibility testing market is fragmented into automated AST, Etest method, dilution, disk diffusion, and others. Based on, application market is segmented into drug development, susceptibility

testing, and others. Based on end user, global antimicrobial susceptibility testing market is fragmented into hospitals, diagnostic laboratories, biotechnology & pharmaceutical companies, and others.

Market Players

Bio-Rad Laboratories Inc., Thermo Fisher Scientific Inc., Danaher Corporation, bioMerieux, Inc., Creative Diagnostics, Hi-Media Laboratories Pvt. Ltd., PerkinElmer, Inc., ELITech Group SAS, F. Hoffmann-La Roche Ltd., and Accelerate Diagnostics, Inc. are some of the key players in the global antimicrobial susceptibility testing market.

Report Scope:

In this report, global antimicrobial susceptibility testing market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Antimicrobial Susceptibility Testing Market, By Product:

Manual Tests (MIC Strips, Susceptibility Testing Disks, Susceptibility Plates)

Automated Instruments

Consumables & Media

Antimicrobial Susceptibility Testing Market, By Technique:

Automated AST

Etest Method

Dilution

Disk Diffusion

Others

Antimicrobial Susceptibility Testing Market, By Application:

Drug Development

Susceptibility Testing

Others

Antimicrobial Susceptibility Testing Market, By End User:

Hospitals

Diagnostic Laboratories

BioTechnique & Pharmaceutical Companies

Others

Antimicrobial Susceptibility Testing Market, By region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

South Korea

Australia

Japan

Europe

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global antimicrobial susceptibility testing market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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