

## Bacteriology and Infectious Diseases

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### Editorial

Infectious diseases, such as HIV, human papilloma virus (HPV), and hepatitis B and C, are some forms of STDs that are severe and fatal, and thus the increasing incidences of such diseases are increasing the demand for the microbiology testing market. Increasing healthcare expenditure and the presence of better medical infrastructures, such as hospitals and clinical labs, are some other drivers augmenting the growth of the microbiology testing market. Rapid growth observed in the geriatric population, increasing number of clinical researches in the field of clinical microbiology, rising incidences of infectious diseases, and increased funding, research grants, and public-private investments are some of the factors that are driving the microbiology testing market. Rapid technological advancements are also being witnessed across the worlds that are anticipated to drive the microbiology testing market in the upcoming years. There are emerging economies, such as India and China, which may offer new growth opportunities for the microbiology testing market over the forecast period. Bacteriology was valued at over USD 24.3 billion in 2017 and will exceed USD 675.2 billion with 7.9% CAGR from 2017 to 2024. At Global Market Insights, It is a unique blend of primary and secondary research, with validation and iterations, in order to minimize deviation and present the most accurate analysis of the industry. However, in the market, there are several conflicts observed regarding the usage of genetically modified organisms in food sources, which are expected to restrict the growth of the industrial microbiology market. Rising demand of new technologies will drive the biotechnology industry size. we've seen tremendous growth and change in the industrial diagnostics industry, particularly in the food safety sector expertise in all aspects of the market, plus extensive experience in business management, strategy development and international business, microbiology test volumes, market values and methods used by food producers around the world, based on detailed interviews with more than 450 food production facilities in America, Europe and Asia, including Japan. Total test volumes have increased 128%, and testing for specific foodborne pathogens. The global DNA sequencing market is projected to reach USD 85.5 Million by 2025 from USD 310.1 Million in 2017 growing at a CAGR of 8.5% during the forecast period, The global market for Microbiology reached nearly \$7.1 billion in 2017. This market is expected to grow tonearly \$9.6 billion in 2017 and \$15.7 billion by 2025, with a compound annual growth rate (CAGR) of 8.1% from 2017 to 2025.

Several microorganisms are used in industrial microbiology, including laboratory-selected mutants, naturally occurring organisms, and genetically modified organisms (GMOs). Microbiology research and development is finding increasing application in oil and gas organizations, the food and beverage industry, and environmental testing organizations. In addition, the traditional R&D in the biopharmaceutical industry is

witnessing an upsurge, due to drug development research, which is helping in the augmentation of the industrial microbiology market. Increased demand for nutraceuticals and other fermented products further drives the importance of industrial application of microbiology on a large scale. Such factors are helpful to drive the industrial market. However, in the market, there are several conflicts observed regarding the usage of genetically modified organisms in food sources, which are expected to restrict the growth of the industrial microbiology market. The worldwide Bacteriology market is esteemed at \$6,727.29 million in 2014 and is relied upon to develop at a CAGR of 13.03% in the vicinity of 2014 and 2019. Expanding sickness weight of irresistible maladies and expanded subsidizing for social insurance consumption are the essential development drivers for this market amid the conjecture time frame. The pharmaceuticals application fragment represented the biggest share of the microbiology advertise in 2014; while the nourishment application portion is normal develop at the most astounding CAGR in the vicinity of 2014 and 2019 in the worldwide microbiology showcase.

Bacteriological Testing Market Bacteriological Testing Market globally has been segmented on the basis of technology, bacteria, component, end-use industry, and geography. Coliforms, Salmonella, Campylobacter, Legionella, Listeria, and others have formed the major types of bacteria based on which bacteriological market has been segmented globally. Salmonella dominated Bacteriological Testing Market with rising in severances arising out of this bacteria especially in food and water samples is acting as a major driver for this segment dominating other types. Based on technology, this market includes traditional and rapid where rapid technology is the dominant segment. Higher accuracy, lower turnaround time along with better sensitivity form some of the key drivers that have driven market growth. Cosmetics food & beverage, pharmaceutical, and water are various end-use industries based on which bacteriological testing market has been segmented. Food and beverages are expected to hold a dominant share among other types together with pharmaceutical industry monitoring one of the highest growths in this segment. Rise in contamination along with a growth of stringent food safety regulation shave been some of the major factors that have driven application of bacteriological testing in the food & beverages sector. North America held one of the largest markets for Bacteriological Testing Market globally with Europe and the Asia Pacific accounting for other major shares in the global market. Food safety laws, stringent government regulations along with rising in incidences related to bacterial infections have been some of the key drivers boosting overall demand for Bacteriological Testing Market globally. It has been observed that most companies have been relying on product development and commercialization in order to gain a larger share in the virology and bacteriology testing market.