

# **Pharmaceutical Rapid Microbiology Testing Market Size, Share & Trends Analysis Report By Product (Reagents & Kits), By Technique (Growth-based Testing, Nucleic Acid-based Testing), By Application (Raw Material Testing), By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

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### **Pharmaceutical Rapid Microbiology Testing Market Growth & Trends**

The global pharmaceutical rapid microbiology testing market size is anticipated to reach USD 2.80 billion by 2030 and grow at a CAGR of 17.53% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market's growth is attributed to factors such as the increasing demand for biologics and advanced therapies, growing regulatory pressure, and technological advancements such as nucleic acid-based testing, and growing public concern about the safety of pharmaceuticals has pushed manufacturers to adopt advanced quality control measures, including rapid microbiology testing.

Expanding manufacturing includes biologics, biosimilars, cell therapies, and vaccines, which are highly sensitive to microbial contamination. Due to their complexity and shorter shelf lives, rapid microbiology testing is critical for these products. The pharmaceutical industry is experiencing rapid growth, especially in emerging markets such as India, China, and Brazil. These regions are investing in manufacturing facilities for generics, biosimilars, vaccines, and biologics. Several biopharmaceutical manufacturers outsource production to CMOs, which often employ advanced rapid

microbiology testing technologies t%li%meet diverse client needs and regulatory requirements. For instance, in January 2024, Rapid Micr%li%Biosystems, Inc. announced that Samsung Biologics had selected its Growth Direct platform t%li%enhance microbial quality control processes. This partnership aims t%li%improve efficiency, ensure robust data integrity, and allow for scalable quality control operations within Samsung's manufacturing framework.

Moreover, stringent regulatory compliance is a key driver of the adoption and growth of rapid microbiology testing in the pharmaceutical industry. Regulatory agencies worldwide impose rigorous microbial quality control standards t%li%ensure the safety, efficacy, and quality of pharmaceutical products. Agencies such as the FDA (United States), EMA (Europe), and WHO require strict adherence t%li%pharmacopeial guidelines (e.g., USP, EP, JP) for sterility, microbial limits, and bioburden testing. In addition, regulatory frameworks such as PAT encourage real-time microbial monitoring t%li%ensure process control and compliance. Rapid microbiology methods integrate well with continuous manufacturing systems. Hence, driving the market growth.

#### Pharmaceutical Rapid Microbiology Testing Market Report Highlights

Based on product, reagents and kits segment held the largest market share in 2024. The large share is due t%li%the repetitive usage of reagents and kits for carrying out rapid microbiology tests for biopharmaceuticals.

Based on technology, the growth-based testing segment dominated the market in 2024. These methods are widely used due t%li%their reliability and acceptance by regulatory agencies.

Based on application, the sterility testing segment dominated the market in 2024. Rapid microbiology testing ensures that sterile products, such as injectables and implantables, are free from viable microorganisms.

The North American region dominated the market share of 38.16% in 2024. Accelerated drug and vaccine development timelines, especially during the COVID-19 pandemic, have driven demand for rapid microbiology testing t%li%meet regulatory requirements and market demands faster in this region.

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