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Microbiological Water Testing Services Market Forecasts to 2030 – Global Analysis By Testing Service Type (Fecal, Indicator Testing, Pathogen Detection, Total Plate Count (TPC), Chemical & Toxin Testing, Algal Bloom Testing and Other Testing Service Types), Water Type, Contaminant Type, Technology, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Microbiological Water Testing Services Market is accounted for $1.8 billion in 2024 and is expected to reach $3.0 billion by 2030 growing at a CAGR of 8.4% during the forecast period. Microbiological water testing services involve analyzing water samples to detect the presence of harmful microorganisms such as bacteria, viruses, and parasites. These tests help ensure water safety by identifying potential contaminants that could pose health risks. Common tests include the detection of coliform bacteria, E. coli, and other pathogens. Regular microbiological testing is crucial for maintaining water quality in drinking water, recreational water, and wastewater systems, ensuring compliance with health regulations and protecting public health from waterborne diseases.

According to a journal published by National Center for Biotechnology Information (NCBI), the microbial waterborne diseases affected the developed countries such as US, where it has been estimated that each year 560,000 people suffer from severe waterborne diseases, and 7.1 million suffer from a mild to moderate infections, resulting in estimated 12,000 deaths a year.

Market Dynamics:

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Driver:

Rising concerns over waterborne diseases

Rising concerns over waterborne diseases are significantly influencing the market. Increasing contamination from industrial waste, agricultural runoff, and inadequate sanitation is amplifying health risks, driving demand for reliable testing services. Governments and industries are prioritizing water quality monitoring to prevent outbreaks of diseases like cholera, dysentery, and typhoid. As a result, the market for microbiological testing services is expected to grow, with enhanced focus on public health and safety.

Restraint:

Lack of standardized testing protocols

The lack of standardized testing protocols in the market poses significant challenges, leading to inconsistent results and unreliable water quality assessments. Without uniform guidelines, discrepancies between test outcomes can occur, jeopardizing public health and safety. This lack of standardization also complicates regulatory compliance and hampers global trade, as water safety certifications may not be universally recognized. Consequently, it undermines trust in water quality testing services.

Opportunity:

Industrial and municipal water treatment

The market is heavily driven by industrial and municipal water treatment needs. Both sectors require stringent monitoring to ensure water safety, prevent contamination, and comply with regulatory standards. Industrial activities and municipal systems need regular testing to manage water quality, protect public health, and avoid environmental damage. This growing demand for reliable testing services supports market expansion, especially in urban areas and industrial zones where water use is high.

Threat:

Limited awareness in developing regions

Limited awareness in developing regions hampers the growth of the market, leading to

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insufficient adoption of essential water safety measures. Many communities remain unaware of the risks of waterborne diseases, resulting in inadequate testing and poor water management practices. This lack of awareness can cause public health crises, reduce the effectiveness of water treatment initiatives, and delay the implementation of necessary regulatory standards to ensure safe water access.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the market, initially disrupting supply chains and delaying testing operations. However, the increased focus on hygiene, public health, and water safety during the pandemic heightened awareness of waterborne diseases, leading to greater demand for reliable water testing services. As recovery progresses, the market is expected to grow, with enhanced emphasis on maintaining safe water quality to prevent future health crises.

The fecal indicator testing segment is expected to be the largest during the forecast period

The fecal indicator testing segment is expected to account for the largest market share during the projection period due to it helps detect contamination from human or animal waste.. These tests identify harmful pathogens like E. coli and coliform bacteria, which are indicators of potential waterborne diseases. With increasing concerns over water safety, especially in industrial and municipal water systems, the demand for accurate fecal indicator testing is rising, driving the market's growth and improving public health protection.

The healthcare segment is expected to have the highest CAGR during the forecast period

The healthcare segment is expected to have the highest CAGR during the extrapolated period as safe water is essential for preventing waterborne diseases and promoting public health. Hospitals, clinics, and healthcare facilities require regular water quality monitoring to ensure a safe environment for patients and staff. The growing focus on sanitation and hygiene, especially after the pandemic, has heightened demand for reliable microbiological testing to safeguard water supplies and reduce healthcare-associated infections.

Region with largest share:

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North America region is projected to account for the largest market share during the forecast period driven by stringent water quality regulations and increasing concerns over waterborne diseases. With a strong emphasis on environmental sustainability, industrial water treatment, and public health, both the U.S. and Canada are investing in advanced testing technologies. The rising demand for safe drinking water, particularly in urban areas, is propelling market expansion in this region, ensuring regulatory compliance and public safety.

Region with highest CAGR:

Asia Pacific is expected to register the highest growth rate over the forecast period. As people become more health-conscious, particularly in urban areas, there is an increasing demand for high-quality, safe drinking water. Public awareness campaigns and education on the risks of waterborne diseases have increased the need for reliable water testing services. Additionally, the market is seeing the adoption of advanced technologies such as automated systems, portable water testing kits, and real-time data monitoring.

Key players in the market

Some of the key players in Microbiological Water Testing Services market include Thermo Fisher Scientific Inc., Danaher Corporation, IDEXX Laboratories, Inc., Eurofins Scientific, Bureau Veritas, Romer Labs, ALS Limited, Merck KGaA, Waters Corporation, Ecolab Inc., Hach Company, GE Analytical Instruments, AquaVial, Veolia North America, Pall Corporation, LuminUltra Technologies Ltd., Biotium, Bio-Rad Laboratories and Agilent Technologies.

Key Developments:

In July 2024, Danaher Corporation announced the launch of two new Clinical Laboratory Improvement Amendments (CLIA) and College of American Pathologists (CAP)-certified labs intended to accelerate the development of Companion Diagnostics (CDx) and Complementary Diagnostics (CoDx).

In February 2023, Thermo Fisher Scientific Inc., the world leader in serving science, has launched two new wet chemistry analyzers that deliver fully automated, U.S. Environmental Protection Agency (EPA)-compliant testing for environmental, agricultural, and industrial testing labs.

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Testing Service Types Covered:

- Fecal Indicator Testing
- Pathogen Detection
- Total Plate Count (TPC)
- Chemical & Toxin Testing
- Algal Bloom Testing
- Other Testing Service Types

Water Types Covered:

- Drinking Water
- Wastewater
- Industrial Water
- Surface Water
- Groundwater

Contaminant Types Covered:

- Bacteria
- Viruses
- Parasites
- Fungi
- Algae

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Chemicals & Toxins

Technologies Covered:

PCR-based Technology

Immunoassay-based Technology

Membrane Filtration

Chromogenic Media

Next-Generation Sequencing (NGS)

End Users Covered:

Municipal & Government

Healthcare

Food & Beverage

Pharmaceutical

Environmental Monitoring

Industrial

Other End Users

Regions Covered:

North America

US

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- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina

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Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

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Comprehensive profiling of additional market players (up to 3)

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SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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