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Industrial Microbiological QC Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented by Type (PCR, Bioluminescence, Flow Cytometry, Membrane Filtration, Fluorescence, Colorimetry, and Others), By Application (Product Testing Laboratories, Research and Academic Institutions, Pharmaceutical and Biotechnology Companies, Regulatory and Environmental Agencies, Food and Beverage Companies, and Others), By Region and Competition

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Abstracts

Industrial Microbiological QC market is anticipated to witness impressive growth during the forecast period. This can be ascribed to the high demand for food security across the globe, along with the growing demand for advanced testing for the detection of microbiological contamination in laboratories. Additionally, the growing usage of industrial products such as multivitamins, probiotics, and other supplements will further demand the industrial microbiological QC market in the forecasted period. Also, the growing demand for vitamin capsules, chewable tablets, and other nutraceutical products for treating various conditions in the populations, especially in the pediatric and geriatric populations, will drive market growth over the years. Similarly, an increase in the demand for microbiology testing to assure the quality of the product is expected to enhance the demand for the industrial microbiology QC market over the years. In June 2022, STEMart launched comprehensive microbiological and sterility testing services for sterile, non-pyrogenic products.

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Growing Demand for Microbiological Quality Control

Microbiological testing is reasonably spread across the globe due to the growing communicable disease among the population. Growing automation in microbiological techniques provides significant time and cost savings while also reducing the potential for human error. It will enable the provision of consistently reliable and accurate results. There are some commercially available automated and semi-automated systems that are based on different technologies, such as polymerase chain reaction (PCR), next-generation sequencing (NGS), MALDI-TOF mass spectrometry, flow cytometry, bioluminescence technology, and enzyme-linked fluorescent assay (ELFA). Most of these technologies are used for the detection of contamination and providing efficiency gains when compared to other traditional laboratory technologies and therefore have significant potential for both time and cost savings. Hence, these technologies are rapidly adopted by pharmaceutical and biotechnology companies as well as research institutes for the detection and identification of pathogens and other microorganisms in the manufacturing process of industries to avoid further chances of product recalls. In 2020, the US Government made it compulsory for all food & beverages & pharmaceutical companies to undergo sterile testing for the toxicity level of microbial traits.

Growing Awareness About Real-Time Monitoring

The growing awareness about different new techniques for the detection of microbiological contamination in pharmaceutical laboratories and research laboratories while preparing microbial products which will further boost the market growth during the forecasted period. Recently, automated microbial detection systems have been developed for easy detection of unwanted bacteria, yeast, or virus presence in products which has driven the market growth over the years. In 2020, Thermo Fisher Scientific Company acquired Phitonex Inc., a developer of a spectral dye platform for high-resolution biology applications for advancing R&D in cell therapy. Similarly, the growing demand for rapid microbial testing processes in the QC lab for enhanced and accurate data will demand the industrial microbiological QC market in the forecast period.

Market Segmentation

Global Industrial Microbiological QC market can be segmented by type, application, and by region. Based on the type, the market can be segmented into PCR, Bioluminescence, Flow Cytometry, Membrane Filtration, Fluorescence, Colorimetry, and Others. Based on application, the market can be segmented into Product Testing

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Laboratories, Research and Academic Institutions, Pharmaceutical and Biotechnology Companies, Regulatory and Environmental Agencies, Food and Beverage Companies, and Others. Regionally, North America dominated the market among Asia Pacific, Europe, Middle East & Africa, and South America. Among the different countries, the United States dominated the global Industrial Microbiological QC market on account of the increasing demand for microbiological quality control in the pharmaceutical industry in the country.

Recent Development

In 2021, Lonza Group, a leading biotech company, invested in additional microbial development in Switzerland to increase the capacity of development services and achieve the goal of microbial-derived proteins, with increased lab space & equipment scheduled to be used by the end of 2021.

In 2018, Bio-Rad announced signing a co-marketing agreement with Bruker to get foodborne pathogen detection & confirmation workflow solutions into the food safety sector.

Market Players

3M Company., Becton, Dickinson, and Company., Bio-Rad Laboratories, Inc. Biolog, Inc. bioMerieux SA, Bruker Corporation., BIOTECON Diagnostics GmbH., Charles River Laboratories International, Inc., Danaher Corporation., and F. Hoffmann-La Roche Ltd. are some of the leading players operating in the Global Industrial Microbiological QC Market.

Report Scope:

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

Industrial Microbiological QC Market, By Product Type:

PCR

Bioluminescence

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- Flow Cytometry
- Membrane Filtration
- Fluorescence
- Colorimetry
- Others

Industrial Microbiological QC Market, By Application:

- Product Testing Laboratories
- Research and Academic Institutions
- Pharmaceutical and Biotechnology Companies
- Regulatory and Environmental Agencies
- Food and Beverage Companies
- Others

Industrial Microbiological QC Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France

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- Germany
- United Kingdom
- Italy
- Spain

Asia Pacific

- China
- India
- Japan
- South Korea
- Australia

South America

- Brazil
- Argentina
- Colombia

Middle East & Africa

- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

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Company Profiles: Detailed analysis of the major companies present in the Global Industrial Microbiological QC 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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