

# Industrial Microbiology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global industrial microbiology market size reached US\$ 10.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 17.0 Billion by 2028, exhibiting a growth rate (CAGR) of 8.19% during 2022-2028.

Industrial microbiology or microbial biotechnology refers to the process of manipulating microorganisms for the benefit of the environment, society, and industries. These microorganisms, which are used to produce large-scale industrial products, include naturally occurring organisms, laboratory selected mutants, and genetically modified organisms (GMO). As industrial microbiology relies on renewable resources, it assists in replacing fossil fuels, non-biodegradable plastics, and highly polluting chemical processes with biocompatible alternatives. Presently, it finds extensive application in the manufacturing of alcohols and acetone across the globe.

### Industrial Microbiology Market Trends:

The flourishing pharmaceutical industry represents one of the key factors strengthening the growth of the market. Industrial microbiology assists in the development of antibiotics, vaccines, and steroids. It also aids in maintaining the overall quality and preventing microbial contamination of drugs, injectables, eye drops, nasal solutions, and inhalation products. This, in confluence with the rising demand for antibiotics, is contributing to the market growth. Additionally, depleting oil resources and increasing energy demands are catalyzing the need for cost-effective and eco-friendly oil recovery technologies. Apart from this, as industrial microbiology does not require vast energy inputs and is not impacted by crude oil prices, it finds a wide array of applications in the oil and gas industry across the globe. Moreover, it is increasingly being employed in the food and beverage (F&B) industry for producing fermented food products and the

conversion of industrial food wastes into value-added products. This, coupled with the technological advancements to improve productivity, enhance organoleptic characteristics, and attribute new nutritional functions to certain foods, is creating a favorable market outlook. The market is also propelled by the expanding applications of microbiology in the cosmetics and personal care industry worldwide.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global industrial microbiology market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, test type and end use industry.

#### Breakup by Product:

- Equipment and Systems
- Filtration Pumps and Systems
- Microbial Detection Systems
- Air Monitoring Systems
- Automated Equipment
- Incubators and Culture Apparatus
- Others
- Reaction Consumables
- Media
  - Simple Media
  - Complex Media
  - Defined Media
  - Specialty Media
- Reagents and Strains
- Others
- Laboratory Supplies
  - Bags and Bottles
  - Loop and Needles
  - Petri Dishes, Racks, Seals, Plates and Holders
  - Filtration Disc and Membranes
  - Others

#### Breakup by Test Type:

- Sterility Testing

Microbial Limits Testing  
Bio-burden Testing  
Water and Environmental Testing

Breakup by End Use Industry:

Food and Beverages  
Pharmaceutical Biotechnology  
Agricultural  
Environmental  
Cosmetic and Personal Care  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Becton Dickinson and Company, bioMérieux SA, Bio-Rad Laboratories Inc, Danaher Corporation, Eppendorf AG, QIAGEN, Sartorius AG, Merck KGaA and Thermo Fisher Scientific Inc.

### Key Questions Answered in This Report:

How has the global industrial microbiology market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global industrial microbiology market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the test type?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global industrial microbiology market and who are the key players?

What is the degree of competition in the industry?

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