

Microbial Identification Market Report by Products and Services (Instruments and Software, Consumables, Services), Technology (Mass Spectrometry, PCR, Flow Cytometry, Microscopy, and Others), Method (Phenotypic Methods, Genotypic Methods, Proteomics-Based Methods), Application (Diagnostics, Food and Beverage Testing, Pharmaceuticals, Cosmetics and Personal Care Products Testing, and Others), and Region 2024-2032

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Abstracts

The global microbial identification market size reached US\$ 4.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 11.0 Billion by 2032, exhibiting a growth rate (CAGR) of 10.13% during 2024-2032.

Microbial identification refers to the process of identifying pathogens in mixed microbial communities by examining their behavior. It includes comparing a known and an unknown organism and eventually providing names to the analyzed species. It relies on various techniques, such as deoxyribonucleic acid (DNA) sequencing, riboprinter analysis, repeat-based polymerase chain reaction, and rapid pathogen confirmation. It delivers immediate and reliable results that help diagnose infectious diseases and the timely adoption of required medications and therapies. Besides this, it allows the detection of specific proteins, biochemical activities of the target cells, and gene sequences of microorganisms. As a result, microbial identification finds extensive applications in microbiological quality control at production facilities, academic research centers, and food processing units worldwide.

Microbial Identification Market Trends:

The rising prevalence of infectious diseases caused by microorganisms is increasing the need for microbial identification tests across the globe. The classification of microorganisms and microbes plays a vital role in disease analysis and providing appropriate treatment. In addition, the study of bacteria, parasites, fungi, and microbes is encouraging investors in the pharmaceutical industry to finance innovation in drug development. This represents another factor positively influencing the market. Apart from this, the increasing food safety concerns around the world are driving the need for microbial identification techniques to identify food spoilage contaminants. These techniques help retain the authenticity and flavor of processed food products and increase their shelf life. Furthermore, continuous advancements in the field of microbiology and microbial identification equipment are creating a positive market outlook. Moreover, various initiatives undertaken by governments of various countries to prevent the spread of infectious diseases, coupled with the increasing expenditure on the healthcare industry, are anticipated to propel the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global microbial identification market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on products and services, technology, method and application.

Breakup by Products and Services:

- Instruments and Software
- Consumables
- Panels/ID Cards and Media
- Kits
- Others
- Services

Breakup by Technology:

- Mass Spectrometry
- PCR
- Flow Cytometry
- Microscopy
- Others

Breakup by Method:

Phenotypic Methods
Genotypic Methods
Proteomics-Based Methods

Breakup by Application:

Diagnostics
Food and Beverage Testing
Pharmaceuticals
Cosmetics and Personal Care Products Testing
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 Beckman Coulter Inc. (Danaher Corporation), Biolog Inc., BioMerieux SA, Bruker Corporation, Charles River Laboratories International Inc., Eurofins Scientific SE, Liofilchem S.r.l, Merck KGaA, Shimadzu Corporation, Thermo Fisher Scientific Inc., VWR International LLC. (Avantor Inc.) and Wickham Micro Limited.

Key Questions Answered in This Report

1. What was the size of the global microbial identification market in 2023?
2. What is the expected growth rate of the global microbial identification market during 2024-2032?
3. What are the key factors driving the global microbial identification market?
4. What has been the impact of COVID-19 on the global microbial identification market?
5. What is the breakup of the global microbial identification market based on the technology?
6. What is the breakup of the global microbial identification market based on the method?
7. What are the key regions in the global microbial identification market?
8. Who are the key players/companies in the global microbial identification market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MICROBIAL IDENTIFICATION MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCTS AND SERVICES

- 6.1 Instruments and Software
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Consumables
 - 6.2.1 Market Trends
 - 6.2.2 Key Segments
 - 6.2.2.1 Panels/ID Cards and Media

6.2.2.2 Kits

6.2.2.3 Others

6.2.3 Market Forecast

6.3 Services

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY TECHNOLOGY

7.1 Mass Spectrometry

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 PCR

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Flow Cytometry

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Microscopy

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY METHOD

8.1 Phenotypic Methods

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Genotypic Methods

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Proteomics-Based Methods

8.3.1 Market Trends

8.3.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

- 9.1 Diagnostics
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Food and Beverage Testing
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Pharmaceuticals
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Cosmetics and Personal Care Products Testing
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Others
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia

- 10.2.5.1 Market Trends
- 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends

- 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 Beckman Coulter Inc. (Danaher Corporation)
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 SWOT Analysis
 - 15.3.2 Biolog Inc.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio

- 15.3.3 BioMerieux SA
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
- 15.3.4 Bruker Corporation
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
- 15.3.5 Charles River Laboratories International Inc.
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
- 15.3.6 Eurofins Scientific SE
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7 Liofilchem S.r.l.
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
- 15.3.8 Merck KGaA
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9 Shimadzu Corporation
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10 Thermo Fisher Scientific Inc.
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 VWR International LLC. (Avantor Inc.)

15.3.11.1 Company Overview

15.3.11.2 Product Portfolio

15.3.12 Wickham Micro Limited

15.3.12.1 Company Overview

15.3.12.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Microbial Identification Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Microbial Identification Market Forecast: Breakup by Products and Services (in Million US\$), 2024-2032

Table 3: Global: Microbial Identification Market Forecast: Breakup by Technology (in Million US\$), 2024-2032

Table 4: Global: Microbial Identification Market Forecast: Breakup by Method (in Million US\$), 2024-2032

Table 5: Global: Microbial Identification Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: Microbial Identification Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Microbial Identification Market: Competitive Structure

Table 8: Global: Microbial Identification Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Microbial Identification Market: Major Drivers and Challenges

Figure 2: Global: Microbial Identification Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Microbial Identification Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Microbial Identification Market: Breakup by Products and Services (in %), 2023

Figure 5: Global: Microbial Identification Market: Breakup by Technology (in %), 2023

Figure 6: Global: Microbial Identification Market: Breakup by Method (in %), 2023

Figure 7: Global: Microbial Identification Market: Breakup by Application (in %), 2023

Figure 8: Global: Microbial Identification Market: Breakup by Region (in %), 2023

Figure 9: Global: Microbial Identification (Instruments and Software) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Microbial Identification (Instruments and Software) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Microbial Identification (Consumables) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Microbial Identification (Consumables) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Microbial Identification (Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Microbial Identification (Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Microbial Identification (Mass Spectrometry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Microbial Identification (Mass Spectrometry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Microbial Identification (PCR) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Microbial Identification (PCR) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Microbial Identification (Flow Cytometry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Microbial Identification (Flow Cytometry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Microbial Identification (Microscopy) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Microbial Identification (Microscopy) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Microbial Identification (Other Technologies) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Microbial Identification (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Microbial Identification (Phenotypic Methods) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Microbial Identification (Phenotypic Methods) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Microbial Identification (Genotypic Methods) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Microbial Identification (Genotypic Methods) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Microbial Identification (Proteomics-Based Methods) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Microbial Identification (Proteomics-Based Methods) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Microbial Identification (Diagnostics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Microbial Identification (Diagnostics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Microbial Identification (Food and Beverage Testing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Microbial Identification (Food and Beverage Testing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Microbial Identification (Pharmaceuticals) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Microbial Identification (Pharmaceuticals) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Global: Microbial Identification (Cosmetics and Personal Care Products Testing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Global: Microbial Identification (Cosmetics and Personal Care Products Testing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Global: Microbial Identification (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Global: Microbial Identification (Other Applications) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 41: North America: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: North America: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: United States: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: United States: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Canada: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Canada: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Asia-Pacific: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Asia-Pacific: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: China: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: China: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Japan: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Japan: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: India: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: India: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: South Korea: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: South Korea: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Australia: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Australia: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Indonesia: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Indonesia: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Others: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Others: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Europe: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Europe: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Germany: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Germany: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: France: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: France: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: United Kingdom: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: United Kingdom: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Italy: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Italy: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Spain: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Spain: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Russia: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Russia: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Others: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Others: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Latin America: Microbial Identification Market: Sales Value (in Million US\$),

2018 & 2023

Figure 80: Latin America: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Brazil: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Brazil: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Mexico: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Mexico: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 85: Others: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Others: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Middle East and Africa: Microbial Identification Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Middle East and Africa: Microbial Identification Market: Breakup by Country (in %), 2023

Figure 89: Middle East and Africa: Microbial Identification Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 90: Global: Microbial Identification Industry: SWOT Analysis

Figure 91: Global: Microbial Identification Industry: Value Chain Analysis

Figure 92: Global: Microbial Identification Industry: Porter's Five Forces Analysis

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