

Global Medical Microbiology Testing Technologies Market Size Study, by Indication (Respiratory Diseases, Neurological Diseases, Infectious Diseases, Others), by Technology (Cell Culture, Microscopy, Serology), by Application (Diagnostic, Treatment Monitoring), by End-User (Hospital Labs, Pathology Labs, Research Institutes, Others) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G5705DBE363BEN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G5705DBE363BEN

Abstracts

The Global Medical Microbiology Testing Technologies Market is valued at approximately USD 4.2 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8.6% over the forecast period 2024-2032. Medical microbiology testing technologies help identify microorganisms such as mycobacteria, parasites, viruses, fungi, and bacteria, enabling the diagnosis of infectious and chronic diseases. They also facilitate the assessment of response to specific therapeutic interventions. These technologies simplify and speed up the detection of diseases, streamline diagnosis, and control disease spread while reducing testing costs and laboratory workload. The demand for microbial serology and molecular analysis has been rising globally due to the precise results these methods offer. The urgent need to minimize deaths due to chronic diseases is one of the key factors fueling the market size for Medical Microbiology Testing Technologies. These testing techniques study the structure, function, genomics, and metabolism of microorganisms, helping understand how microbes work, interact with living organisms, and cause diseases.

Companies operating in the Global Medical Microbiology Testing Technologies Market are incorporating Artificial Intelligence and Machine Learning to enhance testing

accuracy. They are integrating microscopy, microbial characterization, matching, and colony counting to accelerate disease diagnosis and analysis. Key players are adopting advanced clinical microbiology diagnostic methods that offer faster, more cost-effective, and accurate microbial identification. The need for preventive and curative measures against chronic diseases is fostering market progress. The WHO states that 41 million individuals succumb to noncommunicable diseases (NCDs) such as cancer, heart ailments, and diabetes every year. Infectious disease diagnostic tools are crucial for effective infection prevention and control, determining the nature of microbes leading to infections, and performing epidermal evaluations. Early or timely diagnosis of these diseases in microbiology laboratories helps reduce fatalities. Immunological microbiology testing technologies facilitate the diagnosis and analysis of microbiological images of samples. The rise in the need to deploy molecular microbiology testing to combat chronic diseases is creating lucrative opportunities for companies operating in the global landscape.

The key regions considered for the Global Medical Microbiology Testing Technologies Market study include North America, Europe, Asia Pacific, Latin America, and Rest of the World. Europe accounted for the largest share of the microbial culture and identification landscape in 2023. The region's significant market development is due to the rise in demand for clinical microbiology diagnostic methods in pre- and post-surgical procedures. The U.K., France, and Germany held key market shares in 2023. North America also recorded substantial market expansion, led by increased spending on R&D activities related to antimicrobial susceptibility testing.

Major market players included in this report are:

Abbott Laboratories

Agilent Technologies

Beckman Coulter, Inc. (a Danaher segment)

Becton, Dickinson and Company

Bio-Rad Laboratories, Inc.

bioMérieux

F. Hoffmann-La Roche Ltd.

HiMedia Laboratories Private Limited

Hologic Inc.

Thermo Fisher Scientific

Merck KGaA

Shimadzu Corporation

NEOGEN Corporation

Charles River Laboratories

Sartorius Group

The detailed segments and sub-segment of the market are explained below:

By Indication:

Respiratory Diseases

Neurological Diseases

Infectious Diseases

Others

By Technology:

Cell Culture

Microscopy

Serology

By Application:

Diagnostic

Treatment Monitoring

By End-User:

Hospital Labs

Pathology Labs

Research Institutes

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Russia

ROE

Asia Pacific

China

Japan

India

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET EXECUTIVE SUMMARY

- 1.1. Global Medical Microbiology Testing Technologies Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Indication
 - 1.3.2. By Technology
 - 1.3.3. By Application
 - 1.3.4. By End-User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET DYNAMICS

3.1. Market Drivers

3.1.1. Need for Preventive/Curative Measures Against Chronic Diseases

3.1.2. Incorporation of Advanced Microbiology Instruments

3.2. Market Challenges

3.2.1. Technical Challenges in Microbiology Testing

3.2.2. High Cost of Advanced Testing Instruments

3.3. Market Opportunities

3.3.1. Integration of AI and Machine Learning in Testing

3.3.2. Development of New Microbial Pathogen Detection Techniques

CHAPTER 4. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model

4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES

MARKET SIZE & FORECASTS BY INDICATION 2022-2032

5.1. Segment Dashboard

5.2. Global Medical Microbiology Testing Technologies Market: Indication Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Respiratory Diseases

5.2.2. Neurological Diseases

5.2.3. Infectious Diseases

5.2.4. Others

CHAPTER 6. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

6.1. Segment Dashboard

6.2. Global Medical Microbiology Testing Technologies Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Cell Culture

6.2.2. Microscopy

6.2.3. Serology

CHAPTER 7. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

7.1. Segment Dashboard

7.2. Global Medical Microbiology Testing Technologies Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Diagnostic

7.2.2. Treatment Monitoring

CHAPTER 8. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET SIZE & FORECASTS BY END-USER 2022-2032

8.1. Segment Dashboard

8.2. Global Medical Microbiology Testing Technologies Market: End-User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Hospital Labs

8.2.2. Pathology Labs

8.2.3. Research Institutes

8.2.4. Others

CHAPTER 9. GLOBAL MEDICAL MICROBIOLOGY TESTING TECHNOLOGIES MARKET SIZE & FORECASTS BY REGION 2022-2032

- 9.1. North America Medical Microbiology Testing Technologies Market
 - 9.1.1. U.S. Medical Microbiology Testing Technologies Market
 - 9.1.1.1. Indication breakdown size & forecasts, 2022-2032
 - 9.1.1.2. Technology breakdown size & forecasts, 2022-2032
 - 9.1.1.3. Application breakdown size & forecasts, 2022-2032
 - 9.1.1.4. End-User breakdown size & forecasts, 2022-2032
 - 9.1.2. Canada Medical Microbiology Testing Technologies Market
 - 9.1.2.1. Indication breakdown size & forecasts, 2022-2032
 - 9.1.2.2. Technology breakdown size & forecasts, 2022-2032
 - 9.1.2.3. Application breakdown size & forecasts, 2022-2032
 - 9.1.2.4. End-User breakdown size & forecasts, 2022-2032
- 9.2. Europe Medical Microbiology Testing Technologies Market
 - 9.2.1. UK Medical Microbiology Testing Technologies Market
 - 9.2.2. Germany Medical Microbiology Testing Technologies Market
 - 9.2.3. France Medical Microbiology Testing Technologies Market
 - 9.2.4. Russia Medical Microbiology Testing Technologies Market
 - 9.2.5. Rest of Europe Medical Microbiology Testing Technologies Market
- 9.3. Asia-Pacific Medical Microbiology Testing Technologies Market
 - 9.3.1. China Medical Microbiology Testing Technologies Market
 - 9.3.2. Japan Medical Microbiology Testing Technologies Market
 - 9.3.3. India Medical Microbiology Testing Technologies Market
 - 9.3.4. South Korea Medical Microbiology Testing Technologies Market
 - 9.3.5. Rest of Asia-Pacific Medical Microbiology Testing Technologies Market
- 9.4. Latin America Medical Microbiology Testing Technologies Market
 - 9.4.1. Brazil Medical Microbiology Testing Technologies Market
 - 9.4.2. Argentina Medical Microbiology Testing Technologies Market
 - 9.4.3. Rest of Latin America Medical Microbiology Testing Technologies Market
- 9.5. Middle East & Africa Medical Microbiology Testing Technologies Market
 - 9.5.1. Saudi Arabia Medical Microbiology Testing Technologies Market
 - 9.5.2. UAE Medical Microbiology Testing Technologies Market
 - 9.5.3. South Africa Medical Microbiology Testing Technologies Market
 - 9.5.4. Rest of Middle East & Africa Medical Microbiology Testing Technologies Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Key Company SWOT Analysis
 - 10.1.1 Company
 - 10.1.2 Company
 - 10.1.3 Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Abbott Laboratories
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
 - 10.3.2. Agilent Technologies
 - 10.3.3. Beckman Coulter, Inc. (a Danaher segment)
 - 10.3.4. Becton, Dickinson and Company
 - 10.3.5. Bio-Rad Laboratories, Inc.
 - 10.3.6. bioMérieux
 - 10.3.7. F. Hoffmann-La Roche Ltd.
 - 10.3.8. HiMedia Laboratories Private Limited
 - 10.3.9. Hologic Inc.
 - 10.3.10. Thermo Fisher Scientific
 - 10.3.11 Merck KGaA
 - 10.3.12 Shimadzu Corporation
 - 10.3.13 NEOPEN Corporation
 - 10.3.14 Charles River Laboratories
 - 10.3.15 Sartorius Group

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Medical Microbiology Testing Technologies Market, Report Scope

TABLE 2. Global Medical Microbiology Testing Technologies Market Estimates & Forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Medical Microbiology Testing Technologies Market Estimates & Forecasts by Indication 2022-2032 (USD Billion)

TABLE 4. Global Medical Microbiology Testing Technologies Market Estimates & Forecasts by Technology 2022-2032 (USD Billion)

TABLE 5. Global Medical Microbiology Testing Technologies Market Estimates & Forecasts by Application 2022-2032 (USD Billion)

TABLE 6. Global Medical Microbiology Testing Technologies Market Estimates & Forecasts by End-User 2022-2032 (USD Billion)

TABLE 7. U.S. Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 8. Canada Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 9. Mexico Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 10. UK Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 11. Germany Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 12. France Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 13. Russia Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 14. Rest of Europe Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 15. China Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 16. Japan Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 17. India Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 18. South Korea Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 19. Rest of Asia Pacific Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 20. Brazil Medical Microbiology Testing Technologies Market Estimates & Forecasts, 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Medical Microbiology Testing Technologies Market, Research Methodology
- FIG 2. Global Medical Microbiology Testing Technologies Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods.
- FIG 4. Global Medical Microbiology Testing Technologies Market, Key Trends 2023
- FIG 5. Global Medical Microbiology Testing Technologies Market, Growth Prospects 2022-2032
- FIG 6. Global Medical Microbiology Testing Technologies Market, Porter's 5 Force Model
- FIG 7. Global Medical Microbiology Testing Technologies Market, PESTEL Analysis
- FIG 8. Global Medical Microbiology Testing Technologies Market, Value Chain Analysis
- FIG 9. Global Medical Microbiology Testing Technologies Market by Segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Medical Microbiology Testing Technologies Market by Segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Medical Microbiology Testing Technologies Market by Segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Medical Microbiology Testing Technologies Market by Segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Medical Microbiology Testing Technologies Market by Segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Medical Microbiology Testing Technologies Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Medical Microbiology Testing Technologies Market 2022 & 2032 (USD Billion)
- FIG 16. Europe Medical Microbiology Testing Technologies Market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Medical Microbiology Testing Technologies Market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Medical Microbiology Testing Technologies Market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Medical Microbiology Testing Technologies Market 2022 & 2032 (USD Billion)
- FIG 20. Global Medical Microbiology Testing Technologies Market, Company Market

Share Analysis (2023)

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