

South & Central America Molecular Diagnostics Market Forecast to 2030 – Regional Analysis – by Disease Area (Oncology, Infectious Disease, Genetic Testing, Cardiac Diseases, Immune System Disorders, and Others), Technology (Polymerase Chain Reaction, Isothermal Nucleic Acid Amplification Technology, DNA Sequencing & Next-Generation Sequencing, DNA Microarrays, In-Situ Hybridization, and Others), Product and Services (Assays & Kits, Instruments, and Services & Software), and End User (Hospitals & Clinics, Diagnostic Laboratories, Research & Academic Institutes, and Others)

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Abstracts

The South & Central America molecular diagnostics market is expected to grow from US\$ 1,221.28 million in 2022 to US\$ 2,679.14 million by 2030. It is estimated to grow at a CAGR of 10.3% from 2022 to 2030.

Advancements in Molecular Diagnostics Technologies Fuels South & Central America Molecular Diagnostics Market

Molecular diagnostic techniques and platforms are being used in all areas of anatomic and clinical pathologies. DNA or RNA sequences that are associated with disease, including single nucleotide polymorphism, deletions, rearrangements, and insertions, can be detected in molecular diagnostic tests. Molecular diagnosis has undergone further improvements after the emergence of COVID-19. Conventionally, CT scans, hematological tests, and RT-PCR were in use for testing. As COVID-19 cases grew

rapidly in 2020, the need for rapid, precise testing platforms surged to overcome the disadvantages of conventional testing. Computed tomography (CT), a cost-intensive procedure that may not be available in all hospitals, fails to detect viral infections and other diseases in asymptomatic patients. RT-PCR, which was widely used, was also time-consuming and expensive, and was unable to detect a low viral load during the early stages of infection. Consequently, researchers developed novel approaches to detect SARS-CoV-2, which were faster and more cost effective. Reverse transcription loop-mediated isothermal amplification (RT-LAMP), microarray-based detection, aptamer-based diagnosis, SHERLOCK, SHERLOCKv2, FET Biosensors, cell-based potentiometric diagnosis, and molecular imprinting technology are a few of the examples of novel molecular diagnostics techniques developed for COVID-19 diagnosis. In the last few years, FDA reports have indicated that advancements in molecular testing, antigen-dependent testing, and serological testing have been approved. Collaborative efforts by scientific communities in different countries to manage the COVID-19 pandemic and reduce the extent of mortality have benefited the overall molecular tools and diagnosis landscape, which is likely to create significant opportunities for the molecular diagnostics market in the future.

South & Central America Molecular Diagnostics Market Overview

The molecular diagnostics market in South & Central America is segmented into Argentina, Brazil, and the Rest of South & Central America. The market growth in the region is attributed to the aging population, growing diagnostics market, and the increasing initiatives by major players in the medical device industry. Furthermore, the prevalence of chronic diseases that demand promising diagnostic test options contributes to the market growth in the region.

South & Central America Molecular Diagnostics Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Molecular Diagnostics Market Segmentation

The South & Central America molecular diagnostics market is segmented into disease area, technology, product and services, end user, and country.

Based on disease area, the South & Central America molecular diagnostics market is segmented into infectious disease, oncology, genetic testing, cardiac diseases, immune system disorders, and others. The infectious disease segment registered the largest South & Central America molecular diagnostics market share in 2022.

Based on technology, the South & Central America molecular diagnostics market is segmented into polymerase chain reaction (PCR), in situ hybridization, isothermal nucleic acid amplification technology (INAAT), DNA sequencing and next-generation sequencing (NGS), DNA microarrays, and others. The polymerase chain reaction (PCR) segment registered the largest South & Central America molecular diagnostics market share in 2022. The polymerase chain reaction (PCR) is further sub segmented into RT-

PCR, qPCR, multiplex PCR, and others.

Based on product and services, the South & Central America molecular diagnostics market is segmented into assays and kits, instruments, and services and software. The assays and kits segment registered the largest South & Central America molecular diagnostics market share in 2022.

Based on end users, the South & Central America molecular diagnostics market is segmented into diagnostic laboratories, hospitals and clinics, research and academic institutes, and others. The diagnostic laboratories segment held the largest South & Central America molecular diagnostics market share in 2022.

Based on country, the South & Central America molecular diagnostics market has been categorized into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America molecular diagnostics market in 2022.

Abbott Laboratories, bioMerieux SA, Danaher, F. Hoffmann-La Roche Ltd, Illumina Inc, Novartis AG, Qiagen NV, Siemens Healthineers AG, and Thermo Fisher Scientific Inc. are some of the leading companies operating in the South & Central America molecular diagnostics market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
 - 4.2.1 South & Central America PEST Analysis

5. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Key Market Drivers:
 - 5.1.1 Development of New Products and Increase in Demand for Point-of-Care Testing
 - 5.1.2 Surging Prevalence of Associated Diseases
- 5.2 Market Restraints
 - 5.2.1 Limitations Associated with Molecular Testing
- 5.3 Market Opportunities
 - 5.3.1 Advancements in Molecular Diagnostics Technologies
- 5.4 Future Trends
 - 5.4.1 Molecular Diagnostics in Personalized Medicine
- 5.5 Impact Analysis:

6. MOLECULAR DIAGNOSTICS MARKET - SOUTH & CENTRAL AMERICA

MARKET ANALYSIS

6.1 South & Central America Molecular Diagnostics Market Revenue (US\$ Mn), 2022 – 2030

7. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET – REVENUE AND FORECAST TO 2030 – BY DISEASE AREA

7.1 Overview

7.2 South & Central America Molecular Diagnostics Market Revenue Share, by Disease Area 2022 & 2030 (%)

7.3 Oncology

7.3.1 Overview

7.3.2 Oncology: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

7.4 Infectious Disease

7.4.1 Overview

7.4.2 Infectious Disease: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

7.5 Genetic Testing

7.5.1 Overview

7.5.2 Genetic Testing: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

7.6 Cardiac Diseases

7.6.1 Overview

7.6.2 Cardiac Diseases: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

7.7 Immune System Disorders

7.7.1 Overview

7.7.2 Immune System Disorders: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

7.8 Others

7.8.1 Overview

7.8.2 Others: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET – REVENUE AND FORECAST TO 2030 – BY TECHNOLOGY

8.1 Overview

8.2 South & Central America Molecular Diagnostics Market Revenue Share, by Technology 2022 & 2030 (%)

8.3 Polymerase Chain Reaction

8.3.1 Overview

8.3.2 PCR: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.3.2.1 RT-PCR

8.3.2.1.1 Overview

8.3.3 RT-PCR: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.3.3.1 qPCR

8.3.3.1.1 Overview

8.3.4 qPCR: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.3.4.1 Multiplex PCR

8.3.4.1.1 Overview

8.3.5 Multiplex PCR: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.3.5.1 Others

8.3.5.1.1 Overview

8.3.6 Others: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.4 Isothermal Nucleic Acid Amplification Technology (INAAT)

8.4.1 Overview

8.4.2 Isothermal Nucleic Acid Amplification Technology (INAAT): South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.5 DNA Sequencing and Next-Generation Sequencing (NGS)

8.5.1 Overview

8.5.2 DNA Sequencing and Next-Generation Sequencing (NGS): South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.6 DNA Microarrays

8.6.1 Overview

8.6.2 DNA Microarrays: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.7 In-Situ Hybridization (ISH)

8.7.1 Overview

8.7.2 In-Situ Hybridization (ISH): South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

8.8 Others

8.8.1 Overview

8.8.2 Others: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

9. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET – REVENUE AND FORECAST TO 2030 – BY PRODUCT AND SERVICES

9.1 Overview

9.2 South & Central America Molecular Diagnostics Market Revenue Share, by Product and Services 2022 & 2030 (%)

9.3 Assays and Kits

9.3.1 Overview

9.3.2 Assays and Kits: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 Instruments

9.4.1 Overview

9.4.2 Instruments: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

9.5 Services and Software

9.5.1 Overview

9.5.2 Services and Software: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

10. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET – REVENUE AND FORECAST TO 2030 – BY END USER

10.1 Overview

10.2 South & Central America Molecular Diagnostics Market Revenue Share, by End User 2022 & 2030 (%)

10.3 Hospitals and Clinics

10.3.1 Overview

10.3.2 Hospitals and Clinics: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

10.4 Diagnostics Laboratories

10.4.1 Overview

10.4.2 Diagnostics Laboratories: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

10.5 Research and Academic Institutes

10.5.1 Overview

10.5.2 Research and Academic Institutes: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

10.6 Others

10.6.1 Overview

10.6.2 Others: South & Central America Molecular Diagnostics Market – Revenue and Forecast to 2030 (US\$ Million)

11. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET - COUNTRY ANALYSIS

11.1 South & Central America Molecular Diagnostics Market, Revenue and Forecast to 2030

11.1.1 Overview

11.1.1.1 South & Central America Molecular Diagnostics Market by Country

11.1.2 Brazil

11.1.2.1 Overview

11.1.3 Brazil: Molecular Diagnostics Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.4 Brazil: Molecular Diagnostics Market, by Disease Area

11.1.5 Brazil: Molecular Diagnostics Market, by Technology

11.1.5.1 Brazil: Molecular Diagnostics Market, Polymerase Chain Reaction (PCR)

11.1.6 Brazil: Molecular Diagnostics Market, by Product and Services

11.1.7 Brazil: Molecular Diagnostics Market, by End User

11.1.8 Argentina

11.1.8.1 Overview

11.1.9 Argentina: Molecular Diagnostics Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.10 Argentina: Molecular Diagnostics Market, by Disease Area

11.1.11 Argentina: Molecular Diagnostics Market, by Technology

11.1.11.1 Argentina: Molecular Diagnostics Market, Polymerase Chain Reaction (PCR)

11.1.12 Argentina: Molecular Diagnostics Market, by Product and Services

11.1.13 Argentina: Molecular Diagnostics Market, by End User

11.1.14 Rest of South & Central America

11.1.14.1 Overview

11.1.15 Rest of South & Central America: Molecular Diagnostics Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.16 Rest of South & Central America Molecular Diagnostics Market, by Disease Area

11.1.17 Rest of South & Central America Molecular Diagnostics Market, by Technology

11.1.17.1 Rest of South & Central America: Molecular Diagnostics Market, Polymerase Chain Reaction (PCR)

11.1.18 Rest of South & Central America: Molecular Diagnostics Market, by Product and Services

11.1.19 Rest of South & Central America: Molecular Diagnostics Market, by End User

12. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET INDUSTRY LANDSCAPE

12.1 Overview

12.2 Growth Strategies Done by the Companies in the Market (%)

12.3 Organic Developments

12.3.1 Overview

12.4 Inorganic Developments

12.4.1 Overview

13. SOUTH & CENTRAL AMERICA MOLECULAR DIAGNOSTICS MARKET, KEY COMPANY PROFILES

13.1 Abbott Laboratories

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 Thermo Fisher Scientific Inc

13.2.1 Key Facts

13.2.2 Business Description

13.2.3 Products and Services

13.2.4 Financial Overview

13.2.5 SWOT Analysis

13.2.6 Key Developments

13.3 F. Hoffmann-La Roche Ltd

13.3.1 Key Facts

13.3.2 Business Description

13.3.3 Products and Services

- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments
- 13.4 Qiagen NV
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 bioMerieux SA
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Illumina Inc
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Danaher
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Siemens Healthineers AG
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Novartis AG

- 13.9.1 Key Facts
- 13.9.2 Business Description
- 13.9.3 Products and Services
- 13.9.4 Financial Overview
- 13.9.5 SWOT Analysis
- 13.9.6 Key Developments

14. APPENDIX

- 14.1 About Us
- 14.2 Glossary of Terms

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