

# **2024-2029 Puerto Rico Molecular Diagnostics Market Opportunities - 2024 Competitor Shares and Growth Strategies, 2024-2029 Volume and Sales Segment Forecasts for 100 Infectious, Genetic, Cancer, Forensic and Paternity Tests - Latest Technologies and Instrumentation Pipeline, Emerging Opportunities for Suppliers**

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## **Abstracts**

This new report from LeadingMarketResearch.com is designed to help current suppliers and potential market entrants identify and evaluate emerging opportunities in the molecular diagnostics market during the next five years.

### **Highlights**

Five-year test volume and sales forecasts

Feature comparison of major analyzers

Profiles of market players and start-up firms developing innovative technologies and products

Specific product and business opportunities for instrument and consumable suppliers.

### **Rationale**

The molecular diagnostics market is unquestionably the most rapidly growing segment of the in vitro diagnostics industry. The next five years will witness significant developments in reagent systems and automation, as well as introduction of a wide range of new products that will require innovative marketing approaches. The rate of market penetration into routine clinical laboratories, however, will depend on the introduction of cost-effective and automated systems with amplification methods.

In order to successfully capitalize on the opportunities presented by the molecular diagnostics market, many companies are already exploiting new molecular technologies as corporate strategic assets, managed in support of business and marketing

strategies. Integrating new technology planning with business and corporate strategies will be one of the most challenging tasks for diagnostic companies during the next five years.

#### Market Segmentation Analysis

Sales and market shares of key suppliers of molecular diagnostic reagent kits and components in major markets.

Five-year test volume and sales forecasts for major applications, including: Infectious Diseases Forensic Testing Cancer Paternity Testing/HLA Typing Genetic

Diseases Others Five-year test volume and sales projections for over 30 NAT assays. A comprehensive analysis of the sequencing market, by country and laboratory segment, including: Industrial Academic Government Commercial

Market segmentation analysis, including review of the market dynamics, trends, structure, size, growth and suppliers in major countries.

#### Product/Technology Review

Comparison of leading molecular diagnostic analyzers.

Review of molecular diagnostic technologies, test formats, detection methodologies, trends in testing automation and over 30 target/signal amplification methods, including: PCR bDNA LCR SDNA SBA TMA SSSR, and others

Companies, universities and research centers developing new molecular diagnostic technologies and products.

#### Competitive Assessments

Strategic profiles of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, collaborative arrangements and new technologies/products in R&D.

#### Opportunities and Strategic Recommendations

New product development opportunities with potentially significant market appeal

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

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- II. Major Product Development Opportunities
  - A. Instrumentation
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### **1. INTRODUCTION**

### **2. SEQUENCING METHODS**

### **3. AUTORADIOGRAPHY**

### **4. THE HUMAN GENOME PROJECT**

### **5. SEQUENCING AUTOMATION**

### **6. IMAGE SCANNERS**

### **7. FLUORESCENT DETECTION**

**8. GENE PROFILING****9. GENE EXPRESSION****10. POLYMORPHISM SCREENING****11. PROTEIN INTERACTION NETWORKS****B. DNA and RNA Probe Technologies****1. BASIC PRINCIPLES****2. PROBE PREPARATION****3. THE DNA PROBE TEST****4. TEST FORMATS****5. LABELING TECHNIQUES****6. AMPLIFICATION METHODS****C. Detection Technologies****1. RADIOACTIVE METHODS****2. NON-ISOTOPIC METHODS****D. Instrumentation**

Review of latest analyzers from Abbott, Beckm an Coulter/Danaher, Becton Dickinson, bioMerieux,

Bio-Rad, Cepheid, Hologic, Qiagen, Roche, Siemens Healthineers, and others.

**E. Biochips: Genosensors, Microarrays, Labs-on-the-Chip**

- Liquid Transportation and Mixing

- Separation

- Reaction

- Detection

**F. Pharmacogenomics****G. Major Applications**

## 1. MICROBIOLOGY/INFECTIOUS

### Diseases

#### a. Overview

#### b. Major Infectious

### Diseases

- AIDS/HIV
- Adenovirus
- Aeromonads
- Anthrax/Bacillus Anthracis
- Arboviruses
- Babesiosis
- Bacillary Epithelioid Angiomatosis (BEA), other Bartonella (Rochalimaea)
- Blastocystis Hominis
- Brucella
- Campylobacter
- Candida
- Chagas Disease
- Chancroid
- Chlamydia
- Clostridium Difficile
- Coronaviruses
- Coxsackieviruses
- Creutzfeldt-Jakob's Disease
- Cryptosporidium Parvum
- Cyclospora Cayetanensis
- Cytomegalovirus
- Ebola Virus
- E. Coli
- EchoVirus
- Encephalitis
- Enteroviruses
- Epstein-Barr Virus
- Giardia Lamblia
- Gonorrhea
- Granuloma Inguinale
- Hantavirus
- Helicobacter Pylori

- Hepatitis
- Herpes Simplex Virus
- Human Herpes Virus-6 (HHV-6)
- Influenza Viruses
- Legionella
- Lyme Disease
- Lymphogranuloma Venereum (LGV)
- Malaria
- Measles (Rubeola)
- Meningitis
- Microsporidium
- Mononucleosis
- Mumps
- Mycoplasma
- Papillomaviruses
- Parvovirus B19
- Pneumonia
- Polyomaviruses
- Pseudomonas Aeruginosa
- Rabies
- Respiratory Syncytial Virus (RSV)
- Rhinoviruses
- Rotavirus
- Rubella
- Salmonellosis
- Septicemia
- Shigellosis
- Staphylococcus Aureus
- Streptococci
- Syphilis
- Toxoplasmosis
- Trichomonas Vaginalis
- Tuberculosis
- Vibrio
- West Nile Virus
- Yersinia
- West Nile Virus
- Yersinia

## 2. CANCER TESTING

### a. Overview

### b. Major Cancer Types

- Prostate
- Lung
- Colon and Rectum
- Breast
- Skin
- Uterine
- Leukemia
- Oral

### c. Oncogenes

The report provides review of both current and emerging oncogenes, including:

- Abl/abl-bcr
- AIB1
- BCL-2
- BRCA1
- CD44
- C-fos
- C-myb
- C-myc
- CYP17
- Erb-B
- HPC1
- N-myc
- P40
- P51
- P53
- PIK3CA
- PTI-1
- Ras
- Reg
- Sis
- Src

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