

# 2024 U.S. Molecular Diagnostic Analyzers and Reagent Market Shares and Forecasts for 100 Tests: Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing-Supplier Strategies, Emerging Technologies, Latest Instrumentation, Growth Opportunities

https://marketpublishers.com/r/U692C608EE88EN.html

Date: May 2020

Pages: 1157

Price: US\$ 4,500.00 (Single User License)

ID: U692C608EE88EN

# **Abstracts**

This new 1,157-page report from LeadingMarketResearch.com contains 65 tables.

The report is available by section, and can be customized to specific information needs and budget. The report presents a comprehensive analysis of the US molecular diagnostics market, including:

Major issues pertaining to the US molecular diagnostics laboratory practice, as well as key economic, regulatory, demographic, social and technological trends with significant market impact during the next five years.

An extensive review of DNA probe and biochip technologies, test formats, detection methodologies, trends in testing automation and amplification methods.

Five-year test volume and reagent sales forecasts for the following categories:

Infectious Diseases

Forensic Testing

ancer



Paternity Testing/HLA Typing

Genetic Diseases

Others

Review of testing methodologies an instrumentation technologies.

Feature comparison of automated and semiautomated analyzers.

Sales and market shares of leading suppliers.

Over 60 specific opportunities for molecular diagnostic instruments, test systems, IT and auxiliary products.

Profiles of major suppliers, and emerging market entrants, including their sales, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements and business strategies.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

Contains 1,157 pages and 65 tables



## **Contents**

#### I. INTRODUCTION

#### II. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

- A. Instrumentation
- B. Reagent Kits and Test Systems/panels
- C. Computers, Software and Automation
- D. Auxiliary Products

#### III. DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

### IV. ALTERNATIVE MARKET PENETRATION STRATEGIES

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies for Decentralized Testing Markets

#### V. POTENTIAL MARKET ENTRY BARRIERS AND RISKS

- A. Market Maturity
- B. Cost Containment
- C. Competition
- D. Technological Edge and Limitations
- E. Patent Protection
- F. Regulatory Constraints
- G. Decentralized Testing Market Challenges

#### **VI. MARKET AND TECHNOLOGY REVIEW**

- A. DNA Sequencing
  - 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, Beckman Coulter/Danaher, ??? Becton Dickinson, bioMerieux, Bio-Rad, Cepheid, Hologic, Qiagen, Roche, ?†?Siemens Healthineers, and others.

- E. Biochips: Genosensors, Microarrays, and Labs-on-the-Chip
- F. Pharmacogenomics
- G. Major Applications
  - 1. Microbiology/Infectious Diseases
    - a. Overview
    - b. Major Infectious Diseases

AIDS: HIV/HIV-1/2/Combo, HIVAg/HIV NAT, Western Blot, HTLV-I/II

Adenovirus

Aeromonas

Anthrax/Bacillus Anthracis

Arboviruses

**Babesiosis** 

Bacillary Epithelioid Angiomatosis (BEA) and 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: HAV NAT, HBV NAT, HBs Ag, HCV, HCV NAT, Anti-HBc, Anti-HBs, Anti-

HAV, Hepatitis Delta, HBc Ag, HBe Ag, ALT/SGPT

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 Yersina 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



		_	
	$\overline{}$	$\overline{}$	A
н	$\mathbf{r}$		1

N-myc

P40

P51

P53

PIK3CA

PTI-1

Ras

Reg

Sis

Src

- 3. Genetic Diseases
  - a. Overview
  - b. Nucleic Acid Amplification
  - c. Chromosome Imaging
  - d. Genomics Technologies
  - e. Proteomics Technologies
  - f. Current Pharmacogenomic Tests
  - g. Future Pharmacogenomic Testing
  - h. Major Diseases

Achondroplasia

Autosomal Dominant Polycystic Kidney Disease

Cancer

Cosmetogenomics

Cystic Fibrosis

Down's Syndrome

Duchenne and Becker Muscular Dystrophy

Factor V (Leiden)

Factor IX Deficiency

Fragile X Syndrome

**Heart Disease** 

Hemochomatosis

Hemophilia

**Huntington's Disease** 

Maternal-Fetal Incompatibility

Multiple Endocrine Neoplasia

Phenylketonuria (PKU)

Polycystic Kidney Disease (PKD)

**Prenatal Screening** 



Retinitis Pigmentosa

Retinoblastoma

Sickle Cell Anemia

Spinal Muscular Atrophy

Vitamin B12 Metabolism

- i. Social Issues and Concerns
- 4. Forensic Testing
  - a. Overview
  - b. Multilocus and Single Locus Probes
  - c. The FBI
  - d. DNA Profile Data Banks
  - e. Judicial Implementation
  - f. Major Crime Categories
  - g. Factors Contributing to the DNA Probe

#### Market Expansion

- h. Wildlife Forensics
- 5. Paternity Testing/HLA Typing
- 6. Other Applications
  - a. Disease Susceptibility Testing
  - b. Cardiovascular Diseases
  - c. Diabetes
  - d. Alzheimer's Disease
  - e. Periodontal Disease
  - f. Plasma Purification
  - g. Organ Transplantation
  - h. W ater Contamination
  - i. Other
- H. Competing/Complementing Technologies
  - 1. Monoclonal Antibodies/Immunoassays
  - 2. RNA Probes
  - 3. Two-Dimensional Electrophoresis
  - 4. Flow Cytometry

#### VII. MOLECULAR DIAGNOSTICS MARKET

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market



#### **Shares**

#### **VIII. COMPETITIVE ASSESSMENTS**

The report provides strategic assessments of over 40 leading molecular diagnostics market players and start-up companies with innovative technologies and products, including: Abbott, Agilent Technologies, Beckman Coulter/Danaher, Becton Dickinson, bioMerieux, Bio-Rad, Cepheid, DiaSorin, Eiken Chemical, Enzo, Fujirebio, Grifols, Hologic, Illumina, LabCorp/Sequenom, Leica Biosystems, Myriad Genetics, OrthoClinical Diagnostics, Qiagen, Quest Diagnostics, Quidel, Roche, Shimadzu, Siemens Healthineers, Sierra Molecular, Takara Bio, Tecan Group, Thermo Fisher, Wako and others.



# **List Of Tables**

#### LIST OF TABLES

Major Companies Developing or Marketing AIDS Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Adenovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Bartonella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Campylobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Candida Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Chlamydia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Clostridium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Coronavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Cryptosporidium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing CMV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Echovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Enterovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing EBV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Giardia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Gonorrhea Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hantavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Helicobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hepatitis Molecular Diagnostic and Other



**Direct Identification Tests** 

Major Companies Developing or Marketing Herpes Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Influenza Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Legionella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Lyme Disease Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Measles Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Meningitis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mononucleosis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mumps Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mycoplasma Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Pneumonia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing RSV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Rotavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Rubella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Salmonella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Septicemia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Shigella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Streptococci Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Syphilis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Toxoplasmosis Molecular Diagnostic and Other Direct Identification Tests



Major Companies Developing or Marketing Trichomonas Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic and Other Direct Identification Tests

Oncogenes Potential Application in Cancer Diagnosis

Major Companies Developing or Marketing Cancer Molecular Diagnostic Tests
Major Companies Developing or Marketing Molecular Diagnostic Tests For Genetic
Diseases

U.S.A.

Molecular Diagnostics Test Volume And Sales by Major Application U.S.A.

Laboratories Performing DNA Sequencing by Market Segment

U.S.A.

Molecular Diagnostics Market Potential Laboratory Universe by Market Segment U.S.A.

Molecular Diagnostics Test Volume by Major Application

U.S.A.

Major Infectious Disease Test Volume by Assay

U.S.A.

Major Infectious Disease Test Volume by Method

U.S.A.

Molecular Diagnostics Market by Major Application

U.S.A.

Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers U.S.A.

Major Infectious Disease Diagnostics Market by Assay

U.S.A.

AIDS Testing Market Estimated Sales by Major Supplier

U.S.A.

Adenovirus Testing Market Estimated Sales by Major Supplier

U.S.A.

Chlamydia Testing Market Estimated Sales by Major Supplier

U.S.A.

CMV Testing Market Estimated Sales by Major Supplier

U.S.A.

Echovirus Testing Market Estimated Sales by Major Supplier

U.S.A.

Enterovirus Testing Market Estimated Sales by Major Supplier U.S.A.



EBV Testing Market Estimated Sales by Major Supplier U.S.A.

Gonorrhea Testing Market Estimated Sales by Major Supplier U.S.A.

Hepatitis Testing Market Estimated Sales by Major Supplier U.S.A.

Hepatitis C Testing Market Estimated Sales by Major Supplier U.S.A.

HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier U.S.A.

Herpes Testing Market Estimated Sales by Major Supplier U.S.A.

Influenza Testing Market Estimated Sales by Major Supplier U.S.A.

Meningitis Testing Market Estimated Sales by Major Supplier U.S.A.

Mycoplasma Testing Market Estimated Sales by Major Supplier U.S.A.

Pneumonia Testing Market Estimated Sales by Major Supplier U.S.A.

Rabies Testing Market Estimated Sales by Major Supplier U.S.A.

RSV Testing Market Estimated Sales by Major Supplier U.S.A.

Salmonella Testing Market Estimated Sales by Major Supplier U.S.A.

Shigella Testing Market Estimated Sales by Major Supplier U.S.A.

West Nile Virus Nat Market Reagent Sales by Major Supplier



#### I would like to order

Product name: 2024 U.S. Molecular Diagnostic Analyzers and Reagent Market Shares and Forecasts for

100 Tests: Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing-

Supplier Strategies, Emerging Technologies, Latest Instrumentation, Growth

Opportunities

Product link: https://marketpublishers.com/r/U692C608EE88EN.html

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/U692C608EE88EN.html">https://marketpublishers.com/r/U692C608EE88EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>



To place an order via fax simply print this form, fill in the information below and fax the completed form to  $+44\ 20\ 7900\ 3970$