

2023-2028 U.S. Molecular Diagnostics Market Opportunities--2023 Competitor Shares and Growth Strategies, Five-Year Volume and Sales Segment Forecasts for 100 Infectious, Genetic, Cancer, Forensic and Paternity Tests--Latest Technologies and Instrumentation Pipeline, Emerging Opportunities for Suppliers

<https://marketpublishers.com/r/27C31A1EB1EAEN.html>

Date: November 2023

Pages: 0

Price: US\$ 3,850.00 (Single User License)

ID: 27C31A1EB1EAEN

Abstracts

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:

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- I. Introduction
- II. Major Product Development Opportunities
 - A. Instrumentation
 - B. Reagent Kits and Test Systems/panels
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- 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, 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 (Rubeo la)
- 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
- 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
- HPC1
- N-myc
- P40
- P51
- P53
- PIK3CA
- PTI-1
- Ras
- Reg
- Sis
- Src

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