

2023-2028 North America Molecular Diagnostics Market Opportunities in the US, Canada and Mexico-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

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Abstracts

This new 3-country report from LeadingMarketResearch.com is available by country, market segment, section, or individual test.

The report is designed to help current suppliers and potential market entrants identify and evaluate major business opportunities emerging in the molecular diagnostics market during the next five years. The report is available by section, and can be customized to specific information needs and budget.

Highlights

Supplier sales and market shares in major countries

Five-year test volume and sales forecasts

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

Emerging technologies

Review of molecular diagnostic analyzers

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.

Country Analyses

Canada, Mexico, USA

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: %li%Industrial%li%Academic%li%Government%li%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 marketed by Abbott, Beckman Coulter, BD, Bio-Rad, Gen-Probe, Roche, Tecan and other suppliers.

Extensive review of molecular diagnostic technologies, test formats, detection methodologies, trends in testing automation and over 30 target/signal amplification methods.

Universities and research centers developing new molecular diagnostic technologies and products.

Competitive Assessments

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

Companies developing and marketing molecular diagnostics products, by test and application.

Opportunities and Strategic Recommendations

Specific new product development opportunities with potentially significant market appeal during the next five years.

Design criteria for new products.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

Contains 1,170 pages and 75 tables

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- I. Introduction
- II. Major Product Development Opportunities
 - A. Instrumentation
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- IV. Alternative Market Penetration Strategies
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 - B. Collaborative Arrangements
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 - D. Distribution Strategies for Decentralized Testing Markets
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 - C. Competition
 - D. Technological Edge and Limitations
 - E. Patent Protection
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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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