

2017 Canada Molecular Diagnostics Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternity Testing--Test Volume and Sales Segment Forecasts, Competitive Strategies, Innovative Technologies, Instrumentation Review, Opportunities for Suppliers

https://marketpublishers.com/r/236355B7F72EN.html

Date: March 2017 Pages: 1120 Price: US\$ 3,825.00 (Single User License) ID: 236355B7F72EN

## **Abstracts**

This new report from VPGMarketResearch.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**

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.

#### **Product/Technology Review**

Comparison of leading molecular diagnosticanalyzers.

Review of molecular diagnostic technologies, test formats, detection methodologies, trends in testing automation and over 30 target/signal amplification methods, including:

PCR - bDNA

SDA - NASBA

TMA - SSSR, and others



#### LCR

Companies, universities and research centers developing new moleculardiagnostictechnologies 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 during the next five years.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

Contains 1,120 pages and 48 tables



## Contents

#### **1. INTRODUCTION**

#### 2. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

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

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

#### 4. ALTERNATIVE MARKET PENETRATION STRATEGIES

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

#### 6. MOLECULAR DIAGNOSTIC TECHNOLOGY REVIEW

- A. DNA Sequencing
- B. DNA and RNA Probe Technologies
- C. Detection Technologies
- D. Biochips: Genosensors, Microarrays, and Labs on the Chip
- E. Pharmacogenomics
- F. Competing/complementing
- 1. MONOCLONAL ANTIBODIES/IMMUNOASSAYS
- 2. RNA PROBES
- 3. TWO DIMENSIONAL ELECTROPHORESIS
- 4. FLOW CYTOMETRY

#### 7. MOLECULAR DIAGNOSTIC INSTRUMENTATION REVIEW

#### 8. 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

2. CANCER TESTING

a. Overview

b. Major Cancer Types

Prostate

Lung

Colon and Rectum

Breast

Skin

Uterine

Leukemia

Oral

2017 Canada Molecular Diagnostics Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternit...



c. Oncogenes Abl/abl bcr AIB1 BCL2 BRCA1 CD44 C-fos C-myb C-myc CYP17 **ErbB** HPC1 Nmyc P40 P51 P53 PIK3CA PTI1 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
- Multilocus Probes
- Single Locus Probes
- PCR and RFLP
  - c. DNA Profile Data Banks
- d. Judicial Implementation
- e. Major Crime Categories
- f. Factors Contributing to the DNA Probe Market Expansion
- Technology Availability
- Use of Hair as Evidence
  - g. 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. Water Contamination

i. Other

#### 9. MARKET SIZE AND GROWTH: TEST VOLUME AND SALES FORECASTS

#### **10. COMPETITIVE ASSESSMENTS**

Abbott **Agilent Technologies** Applied Gene Technologies Arca Biopharma Beckman Coulter/Danaher **Becton Dickinson** Biokit **bioMerieux Bio-Rad Biotest** CellMark Forensics/LabCorp Cepheid **Decode Genetics** Diadexus Eiken Elitech Group Enzo **Exact Sciences** Fujirebio Grifols Hologic/Genrobe Illumina Kreatech/Leica Li Cor Biosciences Monogram Biosciences/LabCorp **Myriad Genetics** Ortho Clinical Diagnostics Perkin Elmer/Caliper **Proteome Sciences** Qiagen Roche Scienion

2017 Canada Molecular Diagnostics Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternit...



Sequenom Shimadzu Siemens Sierra Molecular Takara Bio Tecan Group Thermo Fisher/Affymetrix

## 11. APPENDIX: RESEARCH CENTERS DEVELOPING NEW TECHNOLOGIES AND PRODUCTS

2017 Canada Molecular Diagnostics Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternit...



### **List Of Tables**

#### LIST OF TABLES

Molecular Diagnostics Test Volume and Sales Forecasts by Major Application Molecular Diagnostics Test Volume by Major Application Major Infectious Disease Test Volume by Assay Major Infectious Disease Test Volume by Method Molecular Diagnostics Market by Major Application Major Infectious Disease Diagnostics Market by Assay Major Companies Developing or Marketing Salmonella Molecular Diagnostic Tests Major Companies Developing or Marketing AIDS Molecular Diagnostic Tests Major Companies Developing or Marketing Adenovirus Molecular Diagnostic Tests Major Companies Developing or Marketing Bartonella Molecular Diagnostic Tests Major Companies Developing or Marketing Campylobacter Molecular Diagnostic Tests Major Companies Developing or Marketing Candida Molecular Diagnostic Tests Major Companies Developing or Marketing Chlamydia Molecular Diagnostic Tests Major Companies Developing or Marketing Clostridium Molecular Diagnostic Tests Major Companies Developing or Marketing Coronavirus Molecular Diagnostic Tests Major Companies Developing or Marketing Cryptosporidium Molecular Diagnostic Tests Major Companies Developing or Marketing CMV Molecular Diagnostic Tests Major Companies Developing or Marketing Echovirus Molecular Diagnostic tests Major Companies Developing or Marketing Enterovirus Molecular Diagnostic tests Major Companies Developing or Marketing EBV Molecular Diagnostic Tests Major Companies Developing or Marketing Giardia Molecular Diagnostic Tests Major Companies Developing or Marketing Gonorrhea Molecular Diagnostic Tests Major Companies Developing or Marketing Hantavirus Molecular Diagnostic Tests Major Companies Developing or Marketing Helicobacter Molecular Diagnostic Tests Major Companies Developing or Marketing Hepatitis Molecular Diagnostic Tests Major Companies Developing or Marketing Herpes Molecular Diagnostic Tests Major Companies Developing or Marketing Influenza Molecular Diagnostic Tests Major Companies Developing or Marketing Legionella Molecular Diagnostic Tests Major Companies Developing or Marketing Lyme Disease Molecular Diagnostic Tests Major Companies Developing or Marketing Measles Molecular Diagnostic Tests Major Companies Developing or Marketing Meningitis Molecular Diagnostic Tests Major Companies Developing or Marketing Mononucleosis Molecular Diagnostic Tests Major Companies Developing or Marketing Mumps Molecular Diagnostic Tests Major Companies Developing or Marketing Mycoplasma Molecular Diagnostic Tests Major Companies Developing or Marketing Pneumonia Molecular Diagnostic Tests Major Companies Developing or Marketing RSV Molecular Diagnostic Tests Major Companies Developing or Marketing Rotavirus Molecular Diagnostic Tests



Major Companies Developing or Marketing Rubella Molecular Diagnostic Tests Major Companies Developing or Marketing Septicemia Molecular Diagnostic Tests Major Companies Developing or Marketing Shigella Molecular Diagnostic Tests Major Companies Developing or Marketing Streptococci Molecular Diagnostic Tests Major Companies Developing or Marketing Syphilis Molecular Diagnostic Tests Major Companies Developing or Marketing Toxoplasmosis Molecular Diagnostic Tests Major Companies Developing or Marketing Trichomonas Molecular Diagnostic Tests Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic Tests Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic Tests Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic Tests Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic Tests Major Companies Developing or Marketing Cancer Diagnosis Major Companies Developing or Marketing Cancer Molecular Diagnostic Tests Major Companies Developing or Marketing Molecular Diagnostic Tests For Genetic Diseases



#### I would like to order

- Product name: 2017 Canada Molecular Diagnostics Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternity Testing--Test Volume and Sales Segment Forecasts, Competitive Strategies, Innovative Technologies, Instrumentation Review, Opportunities for Suppliers
  - Product link: https://marketpublishers.com/r/236355B7F72EN.html
    - Price: US\$ 3,825.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: info@marketpublishers.com

#### Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/236355B7F72EN.html</u>

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

First name: 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 <u>https://marketpublishers.com/docs/terms.html</u>



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