

# 2017 Australia Nucleic Acid Testing (NAT) Market: Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternity Testing--Volume and Sales Segment Forecasts, Competitive Strategies, Innovative Technologies, Instrumentation, Opportunities for Suppliers

https://marketpublishers.com/r/27368A8477BEN.html

Date: March 2017

Pages: 1120

Price: US\$ 3,825.00 (Single User License)

ID: 27368A8477BEN

# **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**

### 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

### V. POTENTIAL MARKET ENTRY BARRIERS AND RISKS

# VI. 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

### VII. MOLECULAR DIAGNOSTIC INSTRUMENTATION REVIEW

# **VIII. 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

c. Oncogenes



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
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

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

# X. 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/Gen-Probe

Illumina

Kreatech/Leica

Li-Cor Biosciences

Monogram Biosciences/LabCorp

Myriad Genetics

Ortho-Clinical Diagnostics

Perkin Elmer/Caliper

**Proteome Sciences** 

Qiagen

Roche

Scienion

Sequenom



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

XI. APPENDIX: RESEARCH CENTERS DEVELOPING NEW TECHNOLOGIES AND PRODUCTS



# **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
Oncogenes Potential Application in Cancer Diagnosis
Major Companies Developing or Marketing Cancer Molecular Diagnostic Tests
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 Australia Nucleic Acid Testing (NAT) Market: Infectious Diseases, Genetic

Diseases, Cancer, Forensic and Paternity Testing--Volume and Sales Segment Forecasts, Competitive Strategies, Innovative Technologies, Instrumentation,

Opportunities for Suppliers

Product link: https://marketpublishers.com/r/27368A8477BEN.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**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/27368A8477BEN.html">https://marketpublishers.com/r/27368A8477BEN.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  $+44\ 20\ 7900\ 3970$