

Middle East Molecular Diagnostic Analyzers and Reagents, 2019-2023: An 11-Country Analysis-Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing-Supplier Strategies, Volume and Sales Segment Forecasts, Emerging Technologies, Instrumentation Review

https://marketpublishers.com/r/262B21A7771EN.html

Date: May 2019 Pages: 1185 Price: US\$ 9,250.00 (Single User License) ID: 262B21A7771EN

Abstracts

This new 11-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.

Highlights

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

Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, United Arab Emirates

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.

A comprehensive analysis of the sequencing market, by country and laboratory segment, including:

Industrial

Academic

Government

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, including:

PCR

bDNA SDA

NASBA

ТМА

SSSR, and others

LCR



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 1,185 pages and 98 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
 - a. Overview
 - b. Major Isotopes
 - 2. Non-Isotopic Methods
 - a. Enzymatic Labels
 - b. Chemical Labeling
 - c. Fluorescence
 - d. Chemiluminescence
 - e. Electrical Conductivity
- D. Molecular Diagnostic Instrumentation Review
 - 1. Abbott LCx
 - 2. Beckman Coulter/Biomek FK
 - 3. BD Viper System with XTR Technology
 - 4. BD Innova
 - 5. Becton Dickinson SDA
 - 6. bioMerieux NucliSENS easyMAG
 - 7. bioMerieux NucliSENS easyQ and MiniMAG
 - 8. Bio-Rad GeneScope
 - 9. Cepheid GeneXpert
 - 10. Curetis Unyvero
 - 11. GenMark Dx eSensor XT-8
 - 12. Hologic/Gen-Probe Panther
 - 13. Hologic/Gen-Probe Tigris/DTS
 - 14. HTG Molecular Edge
 - 15. Life Technologies QuantStudio Dx
 - 16. Qiagen QIAsymphony RGQ



- 17. Roche Cobas Amplicor
- 18. Roche Cobas TaqMan
- 19. Roche Cobas TaqMan
- 20. Roche Cobas TaqMan AmpliPrep
- 21. Roche LighCycler
- 22. Roche Cobas 4800
- 23. Roche Cobas s
- 24. Siemens Versant
- 25. Tecan LS Series
- 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 (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

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
- 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
- H. Competing/complementing
 - 1. Monoclonal Antibodies/Immunoassays
 - 2. RNA Probes
 - 3. Two-Dimensional Electrophoresis
 - 4. Flow Cytometry

VII. COUNTRY ANALYSES: VOLUME AND SALES FORECASTS--INFECTIOUS DISEASES, GENETIC DISEASES, CANCER, FORENSIC AND PATERNITY TESTING

Bahrain Iran Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia United Arab Emirates



VIII. COMPETITIVE ASSESSMENTS

Abbott Affymetrix/Thermo Fisher **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

IX. APPENDIX: MAJOR UNIVERSITIES AND RESEARCH CENTERS DEVELOPING INNOVATIVE

Molecular Diagnostic Technologies and Products



List Of Tables

LIST OF TABLES

Bahrain Molecular Diagnostics Test Volume and Sales Forecasts by Application Bahrain Molecular Diagnostics Test Volume Forecasts by Application Bahrain Major Infectious Disease Test Volume Forecasts by Assay Bahrain Molecular Diagnostics Market Forecasts by Application Bahrain Major Infectious Disease Diagnostics Market Forecasts by Assay Iran Molecular Diagnostics Test Volume and Sales Forecasts by Application Iran Molecular Diagnostics Test Volume Forecasts by Application Iran Major Infectious Disease Test Volume Forecasts by Assay Iran Molecular Diagnostics Market Forecasts by Application Iran Major Infectious Disease Diagnostics Market Forecasts by Assay Iraq Molecular Diagnostics Test Volume and Sales Forecasts by Application Iraq Molecular Diagnostics Test Volume Forecasts by Application Iraq Major Infectious Disease Test Volume Forecasts by Assay Iraq Molecular Diagnostics Market Forecasts by Application Iraq Major Infectious Disease Diagnostics Market Forecasts by Assay Israel Molecular Diagnostics Test Volume and Sales Forecasts by Application Israel Molecular Diagnostics Test Volume Forecasts by Application Israel



Major Infectious Disease Test Volume Forecasts by Assay Israel Molecular Diagnostics Market Forecasts by Application Israel Major Infectious Disease Diagnostics Market Forecasts by Assay Jordan Molecular Diagnostics Test Volume and Sales Forecasts by Application Jordan Molecular Diagnostics Test Volume Forecasts by Application Jordan Major Infectious Disease Test Volume Forecasts by Assay Jordan Molecular Diagnostics Market Forecasts by Application Jordan Major Infectious Disease Diagnostics Market Forecasts by Assay Kuwait Molecular Diagnostics Test Volume and Sales Forecasts by Application Kuwait Molecular Diagnostics Test Volume Forecasts by Application **Kuwait** Major Infectious Disease Test Volume Forecasts by Assay Kuwait Molecular Diagnostics Market Forecasts by Application Kuwait Major Infectious Disease Diagnostics Market Forecasts by Assay Lebanon Molecular Diagnostics Test Volume and Sales Forecasts by Application Lebanon Molecular Diagnostics Test Volume Forecasts by Application Lebanon Major Infectious Disease Test Volume Forecasts by Assay Lebanon Molecular Diagnostics Market Forecasts by Application Lebanon Major Infectious Disease Diagnostics Market Forecasts by Assay Oman Molecular Diagnostics Test Volume and Sales Forecasts by Application Oman Molecular Diagnostics Test Volume Forecasts by Application



Oman Major Infectious Disease Test Volume Forecasts by Assay Oman Molecular Diagnostics Market Forecasts by Application Oman Major Infectious Disease Diagnostics Market Forecasts by Assay Saudi Arabia Molecular Diagnostics Test Volume and Sales Forecasts by Application Saudi Arabia Molecular Diagnostics Test Volume Forecasts by Application Saudi Arabia Major Infectious Disease Test Volume Forecasts by Assay Saudi Arabia Molecular Diagnostics Market Forecasts by Application Saudi Arabia Major Infectious Disease Diagnostics Market Forecasts by Assay United Arab Emirates Molecular Diagnostics Test Volume and Sales Forecasts by Application United Arab Emirates Molecular Diagnostics Test Volume Forecasts by Application **United Arab Emirates** Major Infectious Disease Test Volume Forecasts by Assay United Arab Emirates Molecular Diagnostics Market Forecasts by Application United Arab Emirates Major Infectious Disease Diagnostics Market Forecasts by Assay 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



I would like to order

- Product name: Middle East Molecular Diagnostic Analyzers and Reagents, 2019-2023: An 11-Country Analysis-Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing-Supplier Strategies, Volume and Sales Segment Forecasts, Emerging Technologies, Instrumentation Review
 - Product link: https://marketpublishers.com/r/262B21A7771EN.html
 - Price: US\$ 9,250.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: <u>info@marketpublishers.com</u>

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/262B21A7771EN.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