

2018 Europe Molecular Diagnostics Market: France, Germany, Italy, Spain, UK--Supplier Shares and Sales Segment Forecasts by Test, Competitive Intelligence, Emerging Technologies, Instrumentation and Opportunities

https://marketpublishers.com/r/214E5779A09EN.html

Date: June 2018

Pages: 1273

Price: US\$ 19,700.00 (Single User License)

ID: 214E5779A09EN

Abstracts

Complete report \$19,700. DataPack (test volumes, sales forecasts, supplier shares) \$12,800.

This new 1273-page comprehensive five-country report from VPGMarketResearch is designed to help current suppliers and potential market entrants identify and evaluate the major business opportunities emerging in the European molecular diagnostics market during the next five years. The report explores business and technological trends in major European countries (France, Germany, Italy, Spain, UK); provides 5-year test volume/sales forecasts; estimates shares of leading competitors; compares features of major analyzers; profiles leading market players; and identifies specific product and business opportunities facing instrument and consumable suppliers during the next five years.

The \$4.5 billion 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 and cost-effective 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 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 diagnostics companies during the next five years.

Contains 1273 pages and 139 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. Worldwide 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

P-32

S-35

H-3

I-125

- 2. NON-ISOTOPIC METHODS
 - a. Enzymatic Labels
 - b. Chemical Labeling

Indirect Chemical Labeling

Direct 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 QUANTSTUDI 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, and 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/HIV-1/2/Combo, HIVAg/HIV NAT, Western Blot, HTLV-I/II

Adenovirus

Aeromonas

Anthrax/Bacillus Anthracis

Arboviruses

Babesiosis

Bacillary Epithelioid Angiomatosis (BEA) and 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: HAV NAT, HBV NAT, HBs Ag, HCV, HCV NAT, Anti-HBc, Anti-HBs, Anti-

HAV, Hepatitis Delta, HBc Ag, HBe Ag, ALT/SGPT

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
 - Multilocus and Single Locus Probes

Multilocus Probes

Single Locus Probes

PCR and RFLP

- c. The FBI
- d. DNA Profile Data Banks

U.S.A.

U.K.

- e. Judicial Implementation
- f. Major Crime Categories
- g. Factors Contributing to the DNA Probe Market Expansion

Technology Availability

Use of Hair as Evidence

- h. 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. France Molecular Diagnostics Market
- A. Executive Summary



- B. Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares
- VIII. Germany Molecular Diagnostics Market
- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares
- IX. Italy Molecular Diagnostics Market
- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares
- X. Spain Molecular Diagnostics Market
- A. Executive Summary
- **B.** Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares
- XI. U.K. Molecular Diagnostics Market
- A. Executive Summary
- **B.** Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares

XII. COMPETITIVE ASSESSMENTS

Abbott

Affymetrix

Agilent Technologies

Applied Gene Technologies

Arca Biopharma

Beckman Coulter/Danaher

Becton Dickinson

Biokit



| | bioMerieux |
|---|---|
| | Bio-Rad |
| | Biotest |
| | Cepheid |
| | CellMark Forensics/LabCorp |
| | 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 |
| Χ | III. Appendix: Major Universities and Research Centers Developing Molecular |

XIII. Appendix: Major Universities and Research Centers Developing Molecular Diagnostic Technologies



List Of Tables

LIST OF TABLES

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

France Molecular Diagnostics Test Volume And Sales By Major Application

France Laboratories Performing DNA Sequencing By Market Segment

France Molecular Diagnostics Market Potential Laboratory Universe by Market Segment

France Molecular Diagnostics Test Volume By Major Application

France Major Infectious Disease Test Volume by Assay

France Major Infectious Disease Test Volume by Method

France Molecular Diagnostics Market By Major Application

France Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers

France Major Infectious Disease Diagnostics Market by Assay

France AIDS Testing Market Estimated Sales by Major Supplier

France Adenovirus Testing Market Estimated Sales by Major Supplier

France Chlamydia Testing Market Estimated Sales by Major Supplier

France CMV Testing Market Estimated Sales by Major Supplier

France Gonorrhea Testing Market Estimated Sales by Major Supplier

France Hepatitis Testing Market Estimated Sales by Major Supplier

France Hepatitis C Testing Market Estimated Sales by Major Supplier

France HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier

France Herpes Testing Market Estimated Sales by Major Supplier

France Influenza Testing Market Estimated Sales by Major Supplier

France Meningitis Testing Market Estimated Sales by Major Supplier

France Mycoplasma Testing Market Estimated Sales by Major Supplier

France RSV Testing Market Estimated Sales by Major Supplier

France Shigella Testing Market Estimated Sales by Major Supplier

Germany Molecular Diagnostics Test Volume And Sales By Major Application

Germany Laboratories Performing DNA Sequencing By Market Segment

Germany Molecular Diagnostics Market Potential Laboratory Universe by Market Segment

Germany Molecular Diagnostics Test Volume By Major Application

Germany Major Infectious Disease Test Volume by Assay

Germany Major Infectious Disease Test Volume by Method



Germany Molecular Diagnostics Market By Major Application

Germany Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers

Germany Major Infectious Disease Diagnostics Market by Assay

Germany AIDS Testing Market Estimated Sales by Major Supplier

Germany CMV Testing Market Estimated Sales by Major Supplier

Germany EBV Testing Market Estimated Sales by Major Supplier

Germany Gonorrhea Testing Market Estimated Sales by Major Supplier

Germany Hepatitis Testing Market Estimated Sales by Major Supplier

Germany Hepatitis C Testing Market Estimated Sales by Major Supplier

Germany HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier

Germany Herpes Testing Market Estimated Sales by Major Supplier

Germany Influenza Testing Market Estimated Sales by Major Supplier

Germany Meningitis Testing Market Estimated Sales by Major Supplier

Germany Mycoplasma Testing Market Estimated Sales by Major Supplier

Germany Pneumonia Testing Market Estimated Sales by Major Supplier

Germany RSV Testing Market Estimated Sales by Major Supplier

Germany Rotavirus Testing Market Estimated Sales by Major Supplier

Italy Molecular Diagnostics Test Volume And Sales By Major Application

Italy Laboratories Performing DNA Sequencing By Market Segment

Italy Molecular Diagnostics Market Potential Laboratory Universe by Market Segment

Italy Molecular Diagnostics Test Volume By Major Application

Italy Major Infectious Disease Test Volume by Assay

Italy Major Infectious Disease Test Volume by Method

Italy Molecular Diagnostics Market By Major Application

Italy Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers

Italy Major Infectious Disease Diagnostics Market by Assay

Italy AIDS Testing Market Estimated Sales by Major Supplier

Italy CMV Testing Market Estimated Sales by Major Supplier

Italy Gonorrhea Testing Market Estimated Sales by Major Supplier

Italy Hepatitis Testing Market Estimated Sales by Major Supplier

Italy Hepatitis C Testing Market Estimated Sales by Major Supplier

Italy HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier

Italy Herpes Testing Market Estimated Sales by Major Supplier

Italy Influenza Testing Market Estimated Sales by Major Supplier

Italy Meningitis Testing Market Estimated Sales by Major Supplier

Italy Mycoplasma Testing Market Estimated Sales by Major Supplier

Italy RSV Testing Market Estimated Sales by Major Supplier



Spain Molecular Diagnostics Test Volume And Sales By Major Application

Spain Laboratories Performing DNA Sequencing By Market Segment

Spain Molecular Diagnostics Market Potential Laboratory Universe by Market Segment

Spain Molecular Diagnostics Test Volume By Major Application

Spain Major Infectious Disease Test Volume by Assay

Spain Major Infectious Disease Test Volume by Method

Spain Molecular Diagnostics Market By Major Application

Spain Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers

Spain Major Infectious Disease Diagnostics Market by Assay

Spain AIDS Testing Market Estimated Sales by Major Supplier

Spain Chlamydia Testing Market Estimated Sales by Major Supplier

Spain CMV Testing Market Estimated Sales by Major Supplier

Spain Gonorrhea Testing Market Estimated Sales by Major Supplier

Spain Hepatitis Testing Market Estimated Sales by Major Supplier

Spain Hepatitis C Testing Market Estimated Sales by Major Supplier

Spain HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier

Spain Herpes Testing Market Estimated Sales by Major Supplier

Spain Influenza Testing Market Estimated Sales by Major Supplier

Spain Meningitis Testing Market Estimated Sales by Major Supplier

Spain Mycoplasma Testing Market Estimated Sales by Major Supplier

U.K. Molecular Diagnostics Test Volume And Sales By Major Application

U.K. Laboratories Performing DNA Sequencing By Market Segment

U.K. Molecular Diagnostics Market Potential Laboratory Universe by Market Segment

U.K. Molecular Diagnostics Test Volume By Major Application

U.K. Major Infectious Disease Test Volume by Assay

U.K. Major Infectious Disease Test Volume by Method

U.K. Molecular Diagnostics Market By Major Application

U.K. Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers

U.K. Major Infectious Disease Diagnostics Market by Assay

U.K. AIDS Testing Market Estimated Sales by Major Supplier

U.K. Gonorrhea Testing Market Estimated Sales by Major Supplier

U.K. Hepatitis Testing Market Estimated Sales by Major Supplier

U.K. Hepatitis C Testing Market Estimated Sales by Major Supplier

U.K. HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier

U.K. Influenza Testing Market Estimated Sales by Major Supplier

U.K. Mycoplasma Testing Market Estimated Sales by Major Supplier

U.K. Pneumonia Testing Market Estimated Sales by Major Supplier



U.K. Shigella Testing Market Estimated Sales by Major Supplier



I would like to order

Product name: 2018 Europe Molecular Diagnostics Market: France, Germany, Italy, Spain, UK--Supplier

Shares and Sales Segment Forecasts by Test, Competitive Intelligence, Emerging

Technologies, Instrumentation and Opportunities

Product link: https://marketpublishers.com/r/214E5779A09EN.html

Price: US\$ 19,700.00 (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 https://marketpublishers.com/r/214E5779A09EN.html

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 https://marketpublishers.com/docs/terms.html

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