

2013 Analysis of the French Nucleic Acid Testing Market: Emerging Opportunities, Supplier Shares, Country Forecasts, Innovative Technologies, and Competitive Landscape

https://marketpublishers.com/r/2440DDAC607EN.html

Date: April 2013

Pages: 850

Price: US\$ 5,360.00 (Single User License)

ID: 2440DDAC607EN

Abstracts

Complete report \$5,900. DataPack (test volumes, sales forecasts, supplier shares) \$2,350.

Highlights

Comprehensive 850-page market segmentation analysis of the French NAT market.

Major issues pertaining to the French NAT laboratory practice, as well as key economic, regulatory, demographic, social and technological trends with significant market impact during the next ten years.

An extensive review of DNA probe and biochip technologies, test formats, detection methodologies, trends in testing automation and amplification methods.

Ten-year test volume and reagent sales forecasts for the following categories:

Infectious Diseases

Cancer

Forensic Testing

Genetic Diseases



Paternity Testing/HLA Typing

Review of testing methodologies and instrumentation technologies.

Feature comparison of automated and semiautomated analyzers.

Sales and market shares of leading suppliers.

Over 60 specific opportunities for NAT instruments, test systems, IT and auxiliary products.

Profiles of major suppliers, and emerging market entrants, including their sales, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements and business strategies.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

Contains 850 pages and 36 tables



Contents

INTRODUCTION

WORLDWIDE MARKET AND TECHNOLOGY OVERVIEW

- 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 Technology
 - 1. Basic Principles
 - 2. Probe Preparation
 - 3. The DNA Probe Test
 - a. Sample Preparation
 - b. Hybridization
 - c. Separation
 - d. Detection/Measurement
 - 4. Test Formats
 - a. Filter Hybridization
 - b. Southern Blot
 - c. Northern Blot
 - d. In Situ Hybridization
 - e. Others
 - 5. Labeling Techniques
 - 6. Amplification Methods

Polymerase Chain Reaction

Temperature Cyclers

PCR Variations

Immuno-PCR

QC-PCR



DAP-PCR

Strand Displacement Activation

TMA

Ligase Chain Reaction

Branched DNA

Hybridization Protection Assay

Nucleic-Acid Sequence-Based Amplification

Self-Sustained Sequence Replicase

Others

Ampliprobe

CAR

CAS

CPT

Dendritic Polymer Technology

ISO-CR

LAT

Probe Networks

RAMP

Repair Chain Reaction

Rolling Circles

Sequence Independent Gene Amplification

Sequence Initiation Reaction

SISPA

Solid Phase Amplification

- 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. Instrumentation Review
 - 1. Abbott LCx
 - 2. Beckman Coulter/Biomek FK
 - 3. Becton Dickinson SDA
 - 4. Bio-Rad GeneScope
 - 5. Gen-Probe Tigris
 - 6. Roche Cobas Amplicor
 - 7. 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

Structure and Composition

Classification

AIDS Origins

Animal Lentivirus Systems

Virus Receptors

HIV Infections in Humans

Pathogenesis and Pathology

CD4T Lymphocytes and Memory Cells

Monocytes and Macrophages

Lymphoid Organs

Neural Cells

Viral Coinfections

Clinical Findings

Plasma Viral Load

Pediatric AIDS

Neurologic Disease

Opportunistic Infections

Cancer

Immunity



Virus Isolation

Serology

Viral Nucleic Acid/Antigen Detection

Epidemiology

Worldwide Spread of AIDS

United States

Routes of Transmission

DNA Probes

Overview

Quantitative PCR

In Situ PCR

Needed Improvements

Viral Load/Drug Resistance Testing

Genotype and Phenotype Testing

Blood Banking Considerations

Adenovirus

Background

Diagnostic Tests

Vaccines and Drugs

Adeno-Associated Viruses (AAV)

Anthrax/Bacillus Anthracis

Background

Diagnostic Tests

Vaccines and Drugs

Babesiosis

Background

BEA and Other Bartonella Diseases

Background

Diagnostic Tests

Vaccines and Drugs

Chagas Disease

Background

Campylobacter

Background

Diagnostic Tests

Culture Identification

Vaccines and Drugs

Chlamydia

Background



Chlamydia psittaci

Chlmaydia pneumoniae

Chlamydia trachomatis

Diagnostic Tests

Vaccines and Drugs

Creutzfeldt-Jakob's Disease

Background

Blood Transmission

Diagnostic Tests

Major Commercial and Academic Players

Bayer

Disease Sciences/Bio Tec Global

Imperial College School of Medicine

Ortho-Clinical Diagnostics

Pall

ProMetic Life Sciences

Proteome Sciences/Idexx

Q-One Biotech

Serono

U.S. Agricultural Research Service

Drugs

Vaccines

Cytomegalovirus

Background

Chorioretinitis

Gastrointestinal

Central Nervous System Disease

Diagnostic Tests

Vaccines and Drugs

Ebola Virus

Background

Epidemiology

Clinical Syndromes

Diagnostic Tests

Vaccines and Drugs

EchoVirus

Background

Acute Aseptic Meningitisis

Encephalitis



Exanthems

Respiratory Disease

Myopericarditis

Neonatal Infections

Diagnostic Tests

Vaccines and Drugs

Encephalitis

Background

Diagnostic Tests

Vaccines and Drugs

Enteroviruses

Background

Diagnostic Tests

Viral Isolation and Identification

Antibody Tests

Vaccines and Drugs

Epstein-Barr Virus

Background

Diagnostic Tests

Vaccines and Drugs

Gonorrhea

Background

Diagnostic Tests

Vaccines and Drugs

Hepatitis

Hepatitis A

Hepatitis B

Structure and Composition

Replication

Hepatitis C

Hepatitis D (Delta)

Hepatitis E

Hepatitis G

Hepatitis Infections Pathology

Clinical Findings

Laboratory Tests

Hepatitis A

Hepatitis B

Hepatitis C



Hepatitis D

Hepatitis E

Virus-Host Immune Reactions

Epidemiology

Hepatitis A

Hepatitis B

Hepatitis C

Hepatitis D (Delta)

Vaccines and Drugs

Herpes Simplex Virus

Background

Diagnostic Tests

Vaccines and Drugs

Legionella

Background

Diagnostic Tests

Vaccines and Drugs

Lyme Disease

Background

Clinical Description

Clinical Case Definition

Laboratory Criteria for Diagnosis

Case Classification

Diagnostic Tests

Vaccines and Drugs

Malaria

Mycoplasma

Background

Ureaplasma Urealyticum & Mycoplasma Hominis

Diagnostic Tests

Vaccines and Drugs

Papillomaviruses/HPV

Background

HPV in Cancer

Cervical Neoplasm

Diagnostic Tests

Vaccines and Drugs

Prevention

Parvovirus B19



Background

Microbiology

Epidemiology

Clinical Syndromes

Erythema Infectiosum (Slapped Cheek)

Adult Polyarthropathy

Transient Aplastic Crisis

Transient Pancytopenia

Red Cell Aplasia in Immunocompromised

Perinatal Infections

Diagnostic Test

Vaccines and Drugs

Pneumonia

Background

Diagnostic Tests

Vaccines and Drugs

Polyomaviruses

Background

Diagnostic Tests

Vaccines and Drugs

Salmonellosis

Background

Diagnostic Tests

Vaccines and Drugs

Shigellosis

Background

Diagnostic Tests

Vaccines and Drugs

Streptococci

Background

Diagnostic Tests

Vaccines and Drugs

Group A Streptococci

Group B Streptococci

Toxoplasmosis

Background

Diagnostic Tests

Vaccines and Drugs

Tuberculosis



Background

Diagnostic Tests

Microscopic Characteristics

Cultural Characteristics

Skin Tests

MDRTB

Vaccines and Drugs

West Nile Virus

Background

Clinical Syndromes

Diagnostic Tests

Vaccines and Drugs

Yersinia

Background

Diagnostic Tests

Vaccines and Drugs

- c. Antibiotic Susceptibility
- 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. 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 Technologies
 - 1. Monoclonal Antibodies/Immunoassays
 - 2. RNA Probes
 - 3. Two-Dimensional Electrophoresis
 - 4. Flow Cytometry
- I. Worldwide Market Overview



- 1. Business Environment
- 2. Market Structure
- 3. Market Size and Growth

FRANCE

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Growth And Major Suppliers' Sales And Market Shares

MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

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

DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

ALTERNATIVE MARKET PENETRATION STRATEGIES

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies For Decentralized Testing Markets
 - 1. Marketing Approaches
 - 2. Product Complexity
 - 3. Customer Preference
 - 4. Established Suppliers
 - 5. Emerging Suppliers
 - 6. Major Types Of Distributors
 - 7. Market Segmentation

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

COMPETITIVE PROFILES

Abbott

Affymetrix

Agilent

Applied Gene Technologies

Arca

Beckman Coulter/Danaher

Becton Dickinson

Biokit

BioMerieux

Bio-Rad

Biotest

Caliper

Cepheid

Decode

Diadexus

Eiken

Enzo

Exact Sciences

Fujirebio

Gen-Probe

Hologic

Illumina

Innogenetics/Solvay

Kreatech

Li-Cor Biosciences

Life Technologies

Monogram Biosciences

Myriad Genetics

Nanogen/Elitech

Novartis

Orchid CellMark

Ortho-Clinical Diagnostics



Proteome Sciences

Qiagen

Roche

Scienion

Sequenom

Shimadzu

Siemens

Sierra Molecular

Takara Bio

Tecan Group

APPENDIXES

Appendix I: Major Universities and Research Centers Developing NAT Technology

Appendix II: Glossary of Terms

Appendix III: Currency Exchange Rates



List Of Tables

LIST OF TABLES

Major Companies Developing or Marketing AIDS NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Adenovirus NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Campylobacter NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Chlamydia NAT And Other Direct Identification Tests

Major Companies Developing or Marketing CMV 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 Gonorrhea NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Hepatitis NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Herpes NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Legionella NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Lyme Disease NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Mycoplasma NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Papilloma Virus NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Pneumonia NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Salmonella NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Shigella NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Streptococci NAT And Other Direct Identification Tests

Major Companies Developing or Marketing Toxoplasmosis NAT And Other Direct



Identification Tests

Major Companies Developing or Marketing Tuberculosis NAT And Other Direct Identification Tests

Oncogenes Potential Application in Cancer Diagnosis Major Companies Developing or Marketing Cancer NAT Tests

Major Companies Developing or Marketing NAT Assays For Genetic Diseases

Summary Table France, NAT Test Volume And Sales Forecast by Major Application

France, Laboratories Performing DNA Sequencing By Market Segment

France, NAT Market Potential Laboratory Universe by Market Segment

France, NAT Test Volume Forecast By Major Application

France, Major Infectious Disease Molecular Diagnostics Test Volume Forecast

France, Infectious Disease Screening NAT Volume Forecast

France, NAT Market Forecast By Major Application

France, Infectious Disease Screening NAT Reagent Market Forecast by Test

France, NAT Market By Major Supplier

France, HIV/Hepatitis NAT Market Reagent Sales By Major Supplier



I would like to order

Product name: 2013 Analysis of the French Nucleic Acid Testing Market: Emerging Opportunities,

Supplier Shares, Country Forecasts, Innovative Technologies, and Competitive

Landscape

Product link: https://marketpublishers.com/r/2440DDAC607EN.html

Price: US\$ 5,360.00 (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/2440DDAC607EN.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