

# 2017-2021 UK Nucleic Acid Testing/NAT Market: Growth Opportunities and Business Expansion Strategies for Instrument and Reagent Suppliers

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### **Abstracts**

# **Highlights**

Comprehensive 1,122-page market segmentation analysis of the UK NAT market.

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

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

Five-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 1,122 pages and 53 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

P32

**S35** 

H3

1125

#### 2. NONISOTOPIC 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. BIORAD GENESCOPE
  - 9. CEPHEID GENEXPERT
  - 10. CURETIS UNYVERO
  - 11. GENMARK DX ESENSOR XT8



- 12. HOLOGIC/GENPROBE PANTHER
- 13. HOLOGIC/GENPROBE 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 LabsontheChip

Liquid Transportation and Mixing

Separation

Reaction

Detection

- F. Pharmacogenomics
- G. Major Applications
  - 1. MICROBIOLOGY/INFECTIOUS DISEASES
    - a. Overview
    - b. Major Infectious Diseases

AIDS: HIV/HIV1/2/Combo, HIVAg/HIV NAT, Western Blot, HTLVI/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

CreutzfeldtJakob's Disease

Cryptosporidium Parvum

Cyclospora Cayetanensis

Cytomegalovirus

**Ebola Virus** 

E. Coli

**EchoVirus** 

Encephalitis

Enteroviruses

EpsteinBarr Virus

Giardia Lamblia

Gonorrhea

Granuloma Inguinale

Hantavirus

Helicobacter Pylori

Hepatitis: HAV NAT, HBV NAT, HBs Ag, HCV, HCV NAT, AntiHBc, AntiHBs,

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

Herpes Simplex Virus

**HUMAN HERPES VIRUS6 (HHV6)** 

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/ablbcr AIB1 BCL2 BRCA1 **CD44** Cfos

Cmyb

Cmyc

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** 

MaternalFetal 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
  - 1. MONOCLONAL ANTIBODIES/IMMUNOASSAYS
  - 2. RNA PROBES
  - 3. TWODIMENSIONAL ELECTROPHORESIS
  - 4. FLOW CYTOMETRY
- VII. 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 VIII. COMPETITIVE ASSESSMENTS

Abbott

Affymetrix

**Agilent Technologies** 

Applied Gene Technologies

Arca Biopharma

Beckman Coulter/Danaher

**Becton Dickinson** 

**Biokit** 

bioMerieux

**BioRad** 

**Biotest** 

Cepheid

CellMark Forensics/LabCorp

**Decode Genetics** 

Diadexus

Eiken

Elitech Group

Enzo

**Exact Sciences** 

Fujirebio

Grifols

Hologic/GenProbe

Illumina

Kreatech/Leica

LiCor Biosciences

Monogram Biosciences/LabCorp

Myriad Genetics

OrthoClinical Diagnostics

Perkin Elmer/Caliper

Proteome Sciences

Qiagen

Roche

Scienion

Sequenom

Shimadzu



Siemens Sierra Molecular Takara Bio Tecan Group Thermo Fisher

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

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



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