

U.S. Nucleic Acid Testing/NAT Market 2021: Supplier Shares and Strategies, Country Volume and Sales Segment Forecasts--Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing

<https://marketpublishers.com/r/U09BB5E25CCEN.html>

Date: June 2017

Pages: 1157

Price: US\$ 8,550.00 (Single User License)

ID: U09BB5E25CCEN

Abstracts

Highlights

Comprehensive 1,157-page market segmentation analysis of the US NAT market.

Major issues pertaining to the US 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 1,157 pages and 65 tables

Contents

1. INTRODUCTION

2. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

A. INSTRUMENTATION

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

3. DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

4. ALTERNATIVE MARKET PENETRATION STRATEGIES

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies For Decentralized Testing Markets

5. 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

6. 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 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, 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
O N-myc

O P40
P51
P53
PIK3CA
PTI-1

@ Ras
O 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
 - Hemochromatosis
 - 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

1. MONOCLONAL ANTIBODIES/IMMUNOASSAYS

2. RNA PROBES

3. TWO-DIMENSIONAL ELECTROPHORESIS

4. FLOW CYTOMETRY

7. U.S.A. 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

8. 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

13. 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.S.A. Molecular Diagnostics Test Volume And Sales By Major Application

U.S.A. Laboratories Performing DNA Sequencing By Market Segment

U.S.A. Molecular Diagnostics Market Potential Laboratory Universe by Market Segment 2014

U.S.A. Molecular Diagnostics Test Volume by Major Application

U.S.A. Major Infectious Disease Test Volume by Assay

U.S.A. Major Infectious Disease Test Volume by Method

U.S.A. Molecular Diagnostics Market By Major Application

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

U.S.A. Major Infectious Disease Diagnostics Market by Assay

U.S.A. AIDS Testing Market Estimated Sales by Major Supplier

U.S.A. Adenovirus Testing Market Estimated Sales by Major Supplier

U.S.A. Chlamydia Testing Market Estimated Sales by Major Supplier

U.S.A. CMV Testing Market Estimated Sales by Major Supplier

U.S.A. Echovirus Testing Market Estimated Sales by Major Supplier

U.S.A. Enterovirus Testing Market Estimated Sales by Major Supplier

U.S.A. EBV Testing Market Estimated Sales by Major Supplier

U.S.A. Gonorrhea Testing Market Estimated Sales by Major Supplier

U.S.A. Hepatitis Testing Market Estimated Sales by Major Supplier

U.S.A. Hepatitis C Testing Market Estimated Sales by Major Supplier

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

U.S.A. Herpes Testing Market Estimated Sales by Major Supplier

U.S.A. Influenza Testing Market Estimated Sales by Major Supplier

U.S.A. Meningitis Testing Market Estimated Sales by Major Supplier

U.S.A. Mycoplasma Testing Market Estimated Sales by Major Supplier

U.S.A. Pneumonia Testing Market Estimated Sales by Major Supplier

U.S.A. Rabies Testing Market Estimated Sales by Major Supplier

U.S.A. RSV Testing Market Estimated Sales by Major Supplier

U.S.A. Salmonella Testing Market Estimated Sales by Major Supplier

U.S.A. Shigella Testing Market Estimated Sales by Major Supplier

U.S.A. West Nile Virus Nat Market Reagent Sales by Major Supplier

I would like to order

Product name: U.S. Nucleic Acid Testing/NAT Market 2021: Supplier Shares and Strategies, Country Volume and Sales Segment Forecasts--Infectious and Genetic Diseases, Cancer, Forensic and Paternity Testing

Product link: <https://marketpublishers.com/r/U09BB5E25CCEN.html>

Price: US\$ 8,550.00 (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/U09BB5E25CCEN.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**

Customer 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