

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

<https://marketpublishers.com/r/J6753495099EN.html>

Date: February 2017

Pages: 1126

Price: US\$ 7,650.00 (Single User License)

ID: J6753495099EN

Abstracts

Highlights

Comprehensive 1,126-page market segmentation analysis of the Japanese NAT market.

Major issues pertaining to the Japanese 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 1,126 pages and 56 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
 - I125
 - 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, HTLV1/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/ablcr
 - 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

Hemochromatosis

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. Japan 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

Japan Molecular Diagnostics Test Volume And Sales By Major Application

Japan Laboratories Performing DNA Sequencing By Market Segment

Japan Molecular Diagnostics Market

Potential Laboratory Universe by Market Segment

Japan Molecular Diagnostics Test Volume By Major Application

Japan Major Infectious Disease Test Volume by Assay

Japan Major Infectious Disease Test Volume by Method

Japan Molecular Diagnostics Market By Major Application

Japan Molecular Diagnostics Market

Estimated Sales And Market Shares of Major Suppliers

Japan Major Infectious Disease Diagnostics Market by Assay

Japan AIDS Testing Market Estimated Sales by Major Supplier

Japan Chlamydia Testing Market Estimated Sales by Major Supplier

Japan CMV Testing Market Estimated Sales by Major Supplier

Japan Gonorrhoea Testing Market Estimated Sales by Major Supplier

Japan Hepatitis Testing Market Estimated Sales by Major Supplier

Japan Hepatitis C Testing Market Estimated Sales by Major Supplier

Japan Herpes Testing Market Estimated Sales by Major Supplier

Japan Meningitis Testing Market Estimated Sales by Major Supplier

Japan Mycoplasma Testing Market Estimated Sales by Major Supplier

Japan Pneumonia Testing Market Estimated Sales by Major Supplier

Japan Shigella Testing Market Estimated Sales by Major Supplier

I would like to order

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

Product link: <https://marketpublishers.com/r/J6753495099EN.html>

Price: US\$ 7,650.00 (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/J6753495099EN.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

