

# **2019-2023 Japan Microbiology Automated Market: Supplier Shares and Strategies, Country Segment Forecasts, Technology and Instrumentation Review--Molecular Diagnostics, Microbial Identification, Antibiotic Susceptibility, Blood Culture, Urine Screening, Immunodiagnosics**

<https://marketpublishers.com/r/JCD568AF7E8EN.html>

Date: February 2019

Pages: 421

Price: US\$ 8,850.00 (Single User License)

ID: JCD568AF7E8EN

## **Abstracts**

Complete report \$8,850. DataPack (test volumes, sales forecasts, supplier shares) \$5,700.

LeadingMarketResearch.com's new report is an analysis of major business opportunities emerging in the Japanese automated microbiology market during the next five years. The report examines key trends, reviews current and emerging assays; analyzes potential applications of innovative diagnostic technologies; forecasts volume and sales for molecular diagnostic, microbial identification, antibiotic susceptibility, blood culture, urine screening and immunodiagnostic procedures, as well as over 100 infectious disease tests by assay, application, market segment; profiles leading players and potential market entrants; and suggests alternative business expansion strategies for suppliers.

## **Rationale**

The level of automation in the microbiology laboratory has been lagging behind that of other major clinical laboratory segments, such as chemistry and hematology. The slow acceptance of the technology is in part due to the complexity of developing automation suitable for microbiology tests.

The introduction of automated microbiology instrumentation has been delayed by a number of intrinsic and technical problems. The diffusion of automated microbiology systems, once the technology was developed, has not matched that of other automated laboratory technologies. The acquisition of automation in microbiology has been slowed by forces less easily identifiable than the effects of various reimbursement plans. Some laboratorians still believe that current instrumentation is not the ultimate technology and expect better automation on the horizon.

The driving force behind the need for rapid reporting of microbiological test results is the clinical relevance in a time of financial austerity, a time when cost and health care effectiveness to the patient and diagnostician looms ever larger, and where after-the-fact results at high expense are coming under severe scrutiny worldwide.

This comprehensive report will assist diagnostics industry executives, as well as companies planning to diversify into the dynamic and rapidly expanding Japanese microbiology market, in evaluating emerging opportunities and developing effective business strategies.

## **Market Segmentation Analysis**

Sales and market shares for major suppliers by individual test.

Volume and sales forecasts for over 100 infectious disease assays by individual test:

Test volume estimates by method (molecular, serology/immunodiagnostics, culture/microscopy).

Review of the market dynamics, trends, structure, size, growth and major suppliers.

## **Specimen Types**

Urine

Sterile Fluids: Blood, Serum, CSF

Throat Swabs, Respiratory Secretions

Genital Secretions

Stool

Abscess/Wound

Sputum

Saliva

## **Applications**

Microbial Identification

Antibiotic Susceptibility

Urine Screening

Blood Cultures

## **Review of Major Automated Systems**

Review of major automated molecular diagnostic, multipurpose, specialized, microbial identification, antibiotic susceptibility, blood culture, urine screening, and immunodiagnostic analyzers.

The report profiles analyzers manufactured by Abbott, Alifax, Anagen, BD, Beckman Coulter/Danaher, Biochem, Biolog, bioMerieux, Bio-Rad, Biotrol, Cepheid, Curetis, GenMark, Hologic/Gen-Probe, HTG, Iris, J&J, Labsystems, Life Technologies, MiDI, Olympus, Qiagen, Roche, Siemens, Sy-Lab, Sysmex, Tecan, Thermo Fisher, Tosoh.

## **Infectious Diseases Analyzed in the Report**

AIDS/HIV, Adenovirus, Aeromonads, Bartonella, Blastocystis Hominis, Campylobacter,

Candida, Carbapenemase, Chancroid, Chlamydia, Clostridium, Coronavirus, Coxsackievirus, Cryptosporidium, Cyclospora, CMV, E. Coli, Echovirus, Encephalitis, Enterovirus, EBV, Giardia, Gonorrhoea, Granuloma Inguinale, Hantavirus, H. Pylori, Hepatitis, Herpes, Influenza, Legionella, Lyme Disease, Lymphogranuloma, Malaria, Measles, Meningitis, Microsporidium, Mononucleosis, Mumps, Mycoplasma, Norovirus, HPV, Parvovirus, Pneumonia, Polyomaviruses, Pseudomonas, Rabies, RSV, Rhinovirus, Rotavirus, Rubella, Salmonella, Septicemia, Shigella, Staphylococci, Streptococci, Syphilis, Toxoplasmosis, Trichomonas, TB, Vibrio, West Nile, Yersinia.

## **Technology Review**

Assessment of molecular diagnostic, monoclonal antibody, immunoassay, and other technologies and their potential applications for the microbiology market.

Global listings of companies developing or marketing microbiology products by individual test.

## **Competitive Assessments**

Strategic assessments of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, collaborative arrangements and new products in R&D.

The companies analyzed in the report include Abbott, Affymetrix, Agilent Technologies, Arca Biopharma, Beckman Coulter/Danaher, Becton Dickinson, Biokit, bioMerieux, Bio-Rad, Biotest, CellMark Forensics/LabCorp, Cepheid, Decode Genetics, Diadexus, Diamedix/Erba, DiaSorin, Eiken Chemical, Elitech Group, Enzo Biochem, Exact Sciences, Fujirebio, Grifols, Hologic/Gen-Probe, ID Biomedical/GSK, Illumina, Kretech/Leica, Li-Cor Biosciences, Lonza, Monogram Biosciences, Myriad Genetics, Ortho-Clinical Diagnostics, Perkin Elmer/Caliper, Proteome Sciences, Qiagen, Roche, Scienion, Sequenom, SeraCare, Shimadzu, Siemens, Sierra Molecular, Takara Bio, Tecan, Thermo Fisher, Wallac/PE, Wako.

## **Opportunities and Strategic Recommendations**

Emerging opportunities for new analyzers, reagents kits, IT and other products with significant market appeal during the next five years.

Design criteria for decentralized testing products.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Contains 421 pages and 79 tables

## Contents

### I. WORLDWIDE MARKET AND TECHNOLOGY OVERVIEW

#### A. Introduction

1. Major Factors Affecting Market Penetration of Microbiology Instrumentation
2. Traditional Practices
3. Technological Challenges
4. Automation: Impact on the Microbiology Laboratory and the Patient

#### B. Major Specimen Types

1. Urine
2. Sterile Fluids: Blood, Serum, and CSF
3. Throat Swabs and Respiratory Secretions
4. Genital Secretions
5. Stool
6. Abscess/Wound
7. Sputum
8. Saliva

#### C. Test Applications

1. Microbial Identification
2. Antibiotic Susceptibility
3. Urine Screening
  - a. Photometry
  - b. Bioluminescence
  - c. Colorimetric Filtration
  - d. Enzymatic Detection
  - e. Optical Detection
4. Blood Cultures

#### D. Major Microbiology Automated and Semiautomated Systems

1. Multiple Purpose Microbiology Systems
2. Specialized Microbiology Systems
3. Molecular Diagnostic Systems
4. Immunodiagnostic Systems

#### E. Emerging Diagnostic Technologies

1. Molecular Diagnostics
  - a. DNA Sequencing
    - Introduction
    - Sequencing Methods
    - Autoradiography

- The Human Genome Project
- Sequencing Automation
- Image Scanners
- Fluorescent Detection
- Gene Profiling
- Gene Expression
- Polymorphism Screening
- Protein Interaction Networks
- b. DNA And RNA Probe Technology
  - Basic Principles
  - Probe Preparation
  - The DNA Probe Test
    - Sample Preparation
    - Hybridization
  - Separation
  - Detection/Measurement
  - Test Formats
    - Filter Hybridization
    - Southern Blot
    - Northern Blot
    - In Situ Hybridization
    - Others
  - Labeling Techniques
  - 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
- RAMP
- Repair Chain Reaction
- Rolling Circles
- Sequence Independent Gene Amplification
- Sequence Initiation Reaction
- SISPA
- Solid Phase Amplification
- c. Detection Technologies Radioactive Methods
  - Overview
  - Major Isotopes
    - P-32
    - S-35
    - H-3
    - I-125
  - Non-Isotopic Methods
    - Enzymatic Labels
    - Chemical Labeling
    - Indirect Chemical Labeling
    - Direct Chemical Labeling
      - Fluorescence
      - Chemiluminescence
      - Electrical Conductivity
- d. Biochips: Genosensors, Microarrays, and Labs-on-the-Chip
  - Liquid Transportation and Mixing
  - Separation
  - Reaction
  - Detection
- 2. Monoclonal Antibodies
- 3. Immunoassays
- 4. Differential Light Scattering
- 5. Information Technology
- 6. Artificial Intelligence



7. Liposomes
8. Flow Cytometry
9. Chromatography
10. Diagnostic Imaging
11. Gel Microdroplets
12. Other

## **II. JAPAN**

- A. Business Environment
- B. Market Structure
- C. Market Size, Growth and Major Supplier Sales and Market Shares

## **III. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES**

## **IV. DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS**

## **V. 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

## **VII. 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

### **VIII. COMPETITIVE ASSESSMENTS**

Abbott  
Affymetrix  
Agilent Technologies  
Applied Gene Technologies  
Arca Biopharma  
Beckman Coulter/Danaher  
Becton Dickinson  
Biokit  
bioMerieux  
Bio-Rad  
Biotest  
Cepheid  
CellMark Forensics/Lab Corp  
Decode Genetics  
Diadexus  
Diamedix/Erba  
DiaSorin  
Eiken Chemical  
Elitech Group  
Enzo Biochem  
Exact Sciences  
Fujirebio  
Grifols  
Hologic/Gen-Probe  
Illumina  
ID Biomedical/GSK  
Kreatech/Leica  
Li-Cor Biosciences  
Lonza  
Monogram Biosciences  
Myriad Genetics  
Ortho-Clinical Diagnostics  
Perkin Elmer/Caliper  
Proteome Sciences  
Qiagen

Roche  
Scienion  
Sequenom  
SeraCare  
Siemens  
Sierra Molecular  
Shimadzu  
Takara Bio  
Tecan  
Thermo Fisher  
Wallac/PE  
Wako

## List Of Tables

### LIST OF TABLES

Major Companies Developing or Marketing AIDS Tests  
Major Companies Developing or Marketing Adenovirus Tests  
Major Companies Developing or Marketing Bartonella Tests  
Major Companies Developing or Marketing Campylobacter Tests  
Major Companies Developing or Marketing Candida Tests  
Major Companies Developing or Marketing Chlamydia Tests  
Major Companies Developing or Marketing Clostridium Tests  
Major Companies Developing or Marketing Coronavirus Tests  
Major Companies Developing or Marketing Cryptosporidium Tests  
Major Companies Developing or Marketing CMV Tests  
Major Companies Developing or Marketing Echovirus Tests  
Major Companies Developing or Marketing Enterovirus Tests  
Major Companies Developing or Marketing EBV Tests  
Major Companies Developing or Marketing Giardia Tests  
Major Companies Developing or Marketing Gonorrhoea Tests  
Major Companies Developing or Marketing Hantavirus Tests  
Major Companies Developing or Marketing Helicobacter Pylori Tests  
Major Companies Developing or Marketing Hepatitis Tests  
Major Companies Developing or Marketing Herpes Tests  
Major Companies Developing or Marketing Influenza Tests  
Major Companies Developing or Marketing Legionella Tests  
Major Companies Developing or Marketing Lyme Disease Tests  
Major Companies Developing or Marketing Lymphogranuloma Tests  
Major Companies Developing or Marketing Malaria Tests  
Major Companies Developing or Marketing Measles Tests  
Major Companies Developing or Marketing Meningitis Tests  
Major Companies Developing or Marketing Microsporidium Tests  
Major Companies Developing or Marketing Mononucleosis Tests  
Major Companies Developing or Marketing Mumps Tests  
Major Companies Developing or Marketing Mycoplasma Tests  
Major Companies Developing or Marketing Papilloma Virus Tests  
Major Companies Developing or Marketing Parvovirus Tests  
Major Companies Developing or Marketing Pneumonia Tests  
Major Companies Developing or Marketing RSV Tests  
Major Companies Developing or Marketing Rotavirus Tests

Major Companies Developing or Marketing Rubella Tests  
Major Companies Developing or Marketing Salmonella Tests  
Major Companies Developing or Marketing Septicemia Tests  
Major Companies Developing or Marketing Shigella Tests  
Major Companies Developing or Marketing Staphylococci Tests  
Major Companies Developing or Marketing Streptococci Tests  
Major Companies Developing or Marketing Syphilis Tests  
Major Companies Developing or Marketing Toxoplasmosis Tests  
Major Companies Developing or Marketing Trichomonas Tests  
Major Companies Developing or Marketing Tuberculosis Tests  
Major Companies Developing or Marketing West Nile Tests  
Major Companies Developing or Marketing Yersinia Tests  
Japan Laboratories Performing Microbiology Tests by Market Segment  
Japan Hospital Laboratories Performing Microbiology Tests by Bed Size  
Japan Commercial/Private Laboratories Performing Microbiology Tests by Annual Test Volume  
Japan All Market Segments Microbiology Specimen Volume  
Japan Hospital Laboratories Microbiology Specimen Volume  
Japan Commercial/Private Laboratories Microbiology Specimen Volume  
Japan Microbiology Test Volume by Market Segment  
Japan Microbiology Test Volume by Application  
Japan Urine Screening Test Volume by Market Segment  
Japan Microbial Identification Test Volume by Market Segment  
Japan Blood Culture Test Volume by Market Segment  
Japan Antibiotic Susceptibility Test Volume by Market Segment  
Japan Microbiology Consumables Market by Application  
Japan Microbiology Consumables Market by Market Segment  
Japan Microbial Identification Consumables Sales by Market Segment  
Japan Blood Culture Consumables Sales by Market Segment  
Japan Antibiotic Susceptibility Consumables Sales by Market Segment  
Japan Urine Screening Consumables Sales by Market Segment  
Japan All Market Segments Infectious Disease Test Volume Forecast by Assay  
Japan All Market Segments Infectious Disease Diagnostics Market Forecast by Test  
Japan Infectious Disease Blood Screening NAT Volume Forecast by Assay  
Japan Infectious Disease Blood Screening NAT Reagent Market Forecast by Assay  
Japan HIV/AIDS Testing Market Diagnostics Sales by Major Supplier  
Japan HIV/Hepatitis Blood Screening NAT Market Diagnostics Sales by Major Supplier  
Japan Campylobacter Testing Market Diagnostics Sales by Major Supplier  
Japan Candida Testing Market Diagnostics Sales by Major Supplier

Japan Chlamydia Testing Market Diagnostics Sales by Major Supplier  
Japan CMV Testing Market Diagnostics Sales by Major Supplier  
Japan Gonorrhoea Testing Market Diagnostics Sales by Major Supplier  
Japan Hepatitis Testing Market Diagnostics Sales by Major Supplier  
Japan Hepatitis C Testing Market Diagnostics Sales by Major Supplier  
Japan Herpes Testing Market Diagnostics Sales by Major Supplier  
Japan Legionella Testing Market Diagnostics Sales Forecast by Major Supplier  
Japan Meningitis Testing Market Diagnostics Sales by Major Supplier  
Japan Mononucleosis Testing Market Diagnostics Sales by Major Supplier  
Japan Mycoplasma Testing Market Diagnostics Sales by Major Supplier  
Japan Pneumonia Testing Market Diagnostics Sales by Major Supplier  
Japan RSV Testing Market Diagnostics Sales by Major Supplier  
Japan Rotavirus Testing Market Diagnostics Sales by Major Supplier  
Japan Rubella Testing Market Diagnostics Sales by Major Supplier  
Japan Septicemia Testing Market Diagnostics Sales by Major Supplier  
Japan Shigella Testing Market Diagnostics Sales by Major Supplier  
Japan Streptococci Testing Market Diagnostics Sales by Major Supplier  
Japan Syphilis Testing Market Diagnostics Sales by Major Supplier  
Japan Toxoplasmosis Testing Market Diagnostics Sales by Major Supplier  
Japan Trichomonas Testing Market Diagnostics Sales by Major Supplier  
Japan Tuberculosis Testing Market Diagnostics Sales by Major Supplier  
Japan Molecular Diagnostics Market Sales and Shares of Major Suppliers

## I would like to order

Product name: 2019-2023 Japan Microbiology Automated Market: Supplier Shares and Strategies, Country Segment Forecasts, Technology and Instrumentation Review--Molecular Diagnostics, Microbial Identification, Antibiotic Susceptibility, Blood Culture, Urine Screening, Immunodiagnostics

Product link: <https://marketpublishers.com/r/JCD568AF7E8EN.html>

Price: US\$ 8,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/JCD568AF7E8EN.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