









MEDICAL DEVICES

PHARMACEUTICALS

CHEMICALS

FOOD & BEVERAGE

ELECTRONICS

Table of Contents and List of Tables

Copyright 2012 VENTURE PLANNING GROUP This material is confidential for use by our clients only and may not be reprinted or reproduced.

VPG Publications, Consulting, Clients www.VPGcorp.com

VPG Market Research Reports www.VPGMarketResearch.com

VPG Partner Reports www.Research-Store.com/VPG

VENTURE PLANNING GROUP 545 Eighth Avenue, Suite 401 New York, NY 10018 Phone + 1 212 564 2838 Fax + 1 212 564 8133 *info@vpgcorp.com*

Table of Contents

Introduction

Worldwide Market and Technology Overview

- A. Major Infectious Disease Tests
 - 1. AIDS
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
 - 2. Adenovirus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
 - d. Adeno-Associated Viruses (AAV)
 - 3. Aeromonas
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
 - 4. Anthrax/Bacillus Anthracis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
 - 5. Arboviruses
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
 - 6. Babesiosis
 - a. Background
 - 7. Bacillary Epithelioid Angiomatosis (BEA)

And Other Bartonella (Rochalimaea)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs
- 8. Blastocystis Hominis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs

Table of Contents (continued)

- 9. Brucella
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 10. Campylobacter
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 11. Candida
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 12. Chagas Disease
 - a. Background
- 13. Chancroid
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 14. Chlamydia
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 15. Clostridium Difficile
 - a. Background
 - b. Diagnostic Tests
 - c. Drugs and Vaccines
- 16. Coronaviruses
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 17. Coxsackieviruses
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 18. Creutzfeldt-Jakob's Disease
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines

<u>Table of Contents</u> (continued)

- 19. Cryptosporidium Parvum
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 20. Cyclospora Cayetanensis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 21. Cytomegalovirus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 22. Ebola Virus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 23. E. Coli
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 24. EchoVirus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 25. Encephalitis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 26. Enteroviruses
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 27. Epstein-Barr Virus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 28. Giardia Lamblia
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs

Table of Contents (continued)

29. Gonorrhea

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

30. Granuloma Inquinale

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

31. Hantavirus

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

32. Helicobacter Pylori

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

33. Hepatitis

- a. Background
- b. Hepatitis A
- c. Hepatitis B
- d. Hepatitis C
- e. Vaccines and Drugs

34. Herpes Simplex Virus

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

35. Human Herpes Virus-6 (HHV-6)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

36. Influenza Viruses

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

37. Legionella

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

<u>Table of Contents</u> (continued)

38. Lyme Disease

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

39. Lymphogranuloma Venereum (LGV)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

40. Malaria

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

41. Measles (Rubeola)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

42. Meningitis

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

43. Microsporidium

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

44. Mononucleosis

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

45. Mumps

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

46. Mycoplasma

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

47. Papillomaviruses

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

Table of Contents (continued)

48. Parvovirus B19

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

49. Pneumonia

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

50. Polyomaviruses

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

51. Pseudomonas Aeruginosa

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

52. Rabies

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

53. Respiratory Syncytial Virus (RSV)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

54. RhinoViruses

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

55. RotaVirus (REOVIRUS)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

56. Rubella (MEASLES)

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

57. Salmonellosis

- a. Background
- b. Diagnostic Tests
- c. Vaccines and Drugs

<u>Table of Contents</u> (continued)

- 58. Septicemia
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 59. Shigellosis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 60. Staphylococcus Aureus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 61. Streptococci
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 62. Syphilis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 63. Toxoplasmosis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 64. Trichomonas Vaginalis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 65. Tuberculosis
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 66. Vibrio
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 67. West Nile Virus
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs

Table of Contents (continued)

- 68. Yersina
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- B. Instrumentation Review of Leading Analyzers Marketed by Abbott, Beckman Coulter/Danaher, BioMerieux, Ortho-Clinical Diagnostics, Roche, Siemens, Tosoh, Wallac and Other Suppliers
- C. Emerging Diagnostic Technologies
 - 1. Molecular Diagnostics
 - 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

<u>Japan</u>

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Growth and Major Suppliers

Major Product Development Opportunities

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

<u>Design Criteria for Decentralized Testing Products</u>

Alternative Market Penetration Strategies

- A. Internal Development
- B. Collaborative Arrangements

<u>Table of Contents</u> (continued)

- 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 Assessments

- Abbott
- Affymetrix
- Beckman Coulter/Danaher
- Becton Dickinson
- bioMerieux
- Bio-Rad
- Cepheid
- Diamedix
- DiaSorin
- Eiken Chemical
- Enzo Biochem
- Fujirebio
- Gen-Probe
- Hologic

<u>Table of Contents</u> (continued)

- ID Biomedical
- Innogenetics/Solvay
- Kreatech
- Life Technology
- Lonza
- Nanogen/Elitech
- Novartis Diagnostics
- Ortho-Clinical Diagnostics
- Qiagen
- Roche
- Scienion
- Sequenom
- SeraCare
- Siemens
- Takara Bio
- Thermo Fisher
- Wallac
- Wako

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 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

<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Giardia
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Gonorrhea
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Hantavirus
-	Companies Tests	Developing	or	Marketing	Helicobacter
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Hepatitis
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Herpes
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Influenza
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Legionella
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Lyme Disease
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Lymphogranuloma
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Malaria
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Measles
<i>Major</i> <i>Tests</i>	Companies	Developing	or	Marketing	Meningitis

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 Summary Table

All Infectious Diseases Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Laboratories Performing Infectious Disease Tests by Market Segment

Japan

Hospital Laboratories Performing Infectious Disease Tests by Bed Size

Japan

Commercial/Private Laboratories Performing Infectious Disease Tests by Annual Test Volume

Japan

All Market Segments Infectious Disease Test Volume Forecast

Japan

Hospital Laboratories Infectious Disease Test Volume Forecast

Japan

Blood Banks Infectious Disease Test Volume Forecast

Japan

Commercial/Private Laboratories Infectious Disease Test Volume Forecast

Japan

All Market Segments Infectious Disease Diagnostics Market Forecast

Japan

Hospital Laboratories Infectious Disease Diagnostics Market Forecast

Japan

Blood Banks Infectious Disease Diagnostics Market Forecast

Japan

Commercial/Private Laboratories Infectious Disease Diagnostics Market Forecast

Japan

HIV or HIV I/HIV II Test Volume and Diagnostics Sales by Market Segment Forecast

Japan

HIVAg Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Western Blot/Other Confirmatory Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Adenovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Aeromonads Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

BEA Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Blastocystis Hominis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Campylobacter Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Candida Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Chancroid Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Chlamydia Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Clostridium Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Coronavirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

CoxsackieVirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Cryptosporidium Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Cyclospora Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

CMV Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

E. Coli Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Echovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Encephalitis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Enterovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

EBV Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Giardia Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Gonorrhea Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Granuloma Inguinale Test Volume and Diagnostics Sales Forecast by Market Segment

List of Tables (continued)

Japan

HantaVirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Helicobacter Pylori Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HAV NAT Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HBV NAT Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HBsAg Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Hepatitis C Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Anti-HBc Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Anti-HBs Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Anti-HAV Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Hepatitis Delta Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HBcAg Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HBeAg Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

ALT/SGPT Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Herpes Simplex I and II Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Herpes Type VI Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

HTLV I or HTLV I/HTLV II Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Influenza Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Legionella Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Lyme Disease Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Lymphogranuloma Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Malaria Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Measles Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Meningitis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Microsporidium Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Mononucleosis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Mumps Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Mycoplasma Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Papilloma Virus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Parvovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Pneumonia Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Polyomaviruses Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Pseudomonas Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Rabies Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

RSV Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Rhinovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Rotavirus Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Rubella Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Salmonella Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Septicemia Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Shigella Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Staphylococci Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Streptococci Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Syphilis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Toxoplasmosis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Trichomonas Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Tuberculosis Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Vibrio Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

West Nile Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

Yersinia Test Volume and Diagnostics Sales Forecast by Market Segment

Japan

AIDS Testing 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

Gonorrhea 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