









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

- 9. Brucella
 - a. Background
 - b. Diagnostic Tests
 - c. Vaccines and Drugs
- 10. Campylobacter
 - a. Background
 - b. Diagnostic Tests
 - o Identification from Culture
 - 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

- 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

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

- 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>Germany</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

- 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

- 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

Germany Summary Table

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

Germany

Laboratories Performing Infectious Disease Tests Forecast by Market Segment

Germany

Hospital Laboratories Performing Infectious Disease Tests by Bed Size

Germany

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

Germany

All Market Segments Infectious Disease Test Volume Forecast

List of Tables (continued)

Germany

Hospital Laboratories Infectious Disease Test Volume Forecast

Germany

Blood Banks Infectious Disease Test Volume Forecast

Germany

Commercial/Private Laboratories Infectious Disease Test Volume Forecast

Germany

All Market Segments Infectious Disease Diagnostics Market Forecast

Germany

Hospital Laboratories Infectious Disease Diagnostics Market Forecast

Germany

Blood Banks Infectious Disease Diagnostics Market Forecast

Germany

Commercial/Private Laboratories Infectious Disease Diagnostics Market Forecast

Germany

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

Germany

HIV Ag Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

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

Germany

Adenovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Aeromonads Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

BEA Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Blastocystis Hominis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Campylobacter Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Candida Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Chancroid Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Chlamydia Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Clostridium Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

CoxsackieVirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Cryptosporidium Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Cyclospora Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

CMV Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

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

Germany

Echovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Encephalitis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Enterovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

EBV Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Giardia Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Gonorrhea Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Granuloma Inguinale Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Hantavirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Helicobacter Pylori Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

HAV NAT Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

HBV NAT Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

HBsAg Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Hepatitis C Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

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

Germany

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

Germany

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

Germany

Hepatitis Delta Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

HBcAg Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

HBeAg Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

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

Germany

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

Germany

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

Germany

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

Germany

Influenza Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Legionella Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Lyme Disease Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Lymphogranuloma Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Malaria Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Measles Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Meningitis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Microsporidium Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Mononucleosis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Mumps Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Mycoplasma Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Papilloma Virus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Parvovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Pneumonia Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Polyoma Viruses Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Pseudomonas Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Rabies Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

RSV Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Rhinovirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Rotavirus Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Rubella Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Salmonella Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Septicemia Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Shigella Test Volume and Diagnostics Sales Forecast by Market Segment

List of Tables (continued)

Germany

Staphylococci Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Streptococci Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Syphilis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Toxoplasmosis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Trichomonas Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Tuberculosis Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Vibrio Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

West Nile Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

Yersinia Test Volume and Diagnostics Sales Forecast by Market Segment

Germany

AIDS Testing Market Diagnostics Sales by Major Supplier

Germany

Campylobacter Testing Market Diagnostics Sales by Major Supplier

Germany

Candida Testing Market Diagnostics Sales by Major Supplier

Germany

CMV Testing Market Diagnostics Sales by Major Supplier

Germany

EBV Testing Market Diagnostics Sales by Major Supplier

Germany

Gonorrhea Testing Market Diagnostics Sales by Major Supplier

Germany

Hepatitis Testing Market Diagnostics Sales by Major Supplier

Germany

Hepatitis C Testing Market Diagnostics Sales by Major Supplier

Germany

Herpes Testing Market Diagnostics Sales by Major Supplier

Germany

Influenza Testing Market Diagnostics Sales by Major Supplier

Germany

Legionella Testing Market Diagnostics Sales by Major Supplier

List of Tables (continued)

Germany

Meningitis Testing Market Diagnostics Sales by Major Supplier

Germany

Mononucleosis Testing Market Diagnostics Sales by Major Supplier

Germany

Mycoplasma Testing Market Diagnostics Sales by Major Supplier

Germany

Pneumonia Testing Market Diagnostics Sales by Major Supplier

Germany

RSV Testing Market Diagnostics Sales Forecast by Major Supplier

Germany

Rotavirus Testing Market Diagnostics Sales by Major Supplier

Germany

Rubella Testing Market Diagnostics Sales by Major Supplier

Germany

Septicemia Testing Market Diagnostics Sales by Major Supplier

Germany

Streptococci Testing Market Diagnostics Sales by Major Supplier

Germany

Toxoplasmosis Testing Market Diagnostics Sales by Major Supplier

Germany

Trichomonas Testing Market Diagnostics Sales by Major Supplier

Germany

Tuberculosis Testing Market Diagnostics Sales by Major Supplier