

Table of Contents and List of Tables



Over 1,000 corporations in 70 countries are relying on our market intelligence, expert analysis, and strategic insight, critical to the development and implementation of effective business, R&D and marketing programs.

www.LeadingMarketResearch.com

www.VPGMarketResearch.com

reports@vpgcorp.com

+1 212 564 2838

Table of Contents

I. Introduction

II. Worldwide Market Overview

III. Major Product Development Opportunities

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

IV. Design Criteria for Decentralized Testing Products

V. Alternative Market Penetration Strategies

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies

VI. 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

VII. Worldwide Market and Technology Overview

A. Cancer Statistics and Etiology

1. Breast Cancer
2. Lung Cancer
3. Colon and Rectum Cancer
4. Prostate Cancer
5. Stomach Cancer
6. Leukemia
7. Lymphoma
8. Oral Cancer
9. Skin Cancer
10. Uterine Cancer
11. Ovarian Cancer
12. Bladder Cancer

Table of Contents (continued)

B. Major Current and Emerging Cancer Diagnostic Tests

1. Introduction
2. Tumor Marker Classification
3. ACTH
4. Alpha-Fetoprotein (AFP)
5. Beta-2 Microglobulin
6. CA 15-3/27.29
7. CA 19-9
8. CA-125
9. Calcitonin
10. Carcinoembryonic Antigen (CEA)
11. Estrogen and Progesterone Receptors
12. Ferritin
13. Gastrin
14. Human Chorionic Gonadotropin (HCG)
15. Insulin
16. NSE
17. Occult Blood
18. PAP Smear/HPV
19. Prostatic Acid Phosphatase (PAP)
20. Prostate-Specific Antigen (PSA)
21. Squamous Cell Carcinoma Antigen (SCC)
22. T and B Lymphocytes
23. TdT
24. Thyroglobulin
25. Tissue Polypeptide Antigen (TPA)
26. Biochemical Tumor Markers
27. Oncogenes
 - Abl/abl-bcr
 - AIB1
 - BCL-2
 - BRCA1
 - CD44
 - C-fos
 - C-myb
 - C-myc
 - CYP-17
 - Erb-B
 - HPC1
 - N-myc
 - P40
 - P51
 - P53
 - PIK3CA
 - PTI-1
 - Ras
 - Reg

Table of Contents (continued)

- Sis
- Src and others
- 28. Polypeptide Growth Factors
 - Basic Fibroblast Growth Factor
 - Beta-TGF
 - Cachectin (TNT)
 - Calmodulin
 - ECFR
 - Nerve Growth Factor (NGF)
 - Epidermal Growth Factor (EGF)
 - Ornithine Decarboxylase
 - Transferrin
 - Transforming Growth Factor-Alpha
- 29. Ectopic Hormones
- 30. Colony Stimulating Factors
- 31. Lymphokines
 - Alpha-Interferon
 - B Cell Growth Factors
 - B Cell Growth Factor (BCGF)
 - Gamma-Interferon
 - Interleukin-1 (IL-1)
 - Macrophage Activating Factor
- 32. Immunohistochemical Stains
- 33. Emerging Tumor Markers
 - N-Acetylglucosamine
 - Actin
 - Alpha-Actin
 - Antineuronal Antibodies
 - 7B2
 - B72.3
 - Bax
 - BCD-F9
 - BLCA-4
 - Blood Group Antigens A,B,H
 - CA 50
 - CA 72-4/TAG-72
 - CA 195
 - CA-242
 - CA-549
 - CAM 26
 - CAR-3
 - Cathepsin-D
 - Chromogranin A and B
 - Cluster 1 Antigen
 - Cluster-5/5A Antigen
 - CTA
 - CU18
 - DR-70

Table of Contents (continued)

- DU-PAN-2
- Endometrial Bleeding Associated Factor
- Endostatin
- Epithelial Membrane Antigen
- Feulgen Hydrolysis
- Fibronectin
- FSH
- (1->3)-L-fucosyltransferase
- Gastrin-Releasing Peptide (GRP)
- GDCFP-15
- Glucagon
- Glycoamines
- H23
- Her-2
- Human Carcinoma Antigen
- HPA
- HSP27
- Intermediate Filaments
- Cytokeratins/CK18/Cyfra 21-1
- Desmin
- Gliofibrillary Acid Protein
- Neurofilaments
- Vimentin
- KA 93
- Kinases
- KP16D3
- LAI
- Leukocyte Common Antigen
- Lewis Antigens
- Lysophosphatidic Acid (LPA)
- Ma 695/Ma 552
- MABDF3
- MAG
- ME1
- Minactivin
- MN/CA9
- MSA
- Mucin Cancer Antigen (MCA)
- Multiple Tumor Suppressor 1
- Myosin
- NEA-130
- NMP22
- OA-519
- Opioid Peptides
- P-glycoprotein
- Pancreatic Oncofetal Antigen (POA)
- Placental Lactogen
- PR92

Table of Contents (continued)

- Proliferative Index, Ki-67
- Px
- RB Inactivation/Deletion
- Ret
- SCCL 175
- Selectin
- Sialic Acid
- Sialyl SSEA-1/SLX
- SN10
- Somatostatin
- TA-90
- TABA
- Tachykinin
- TAG 12
- TPS
- Troponin
- Tubulin
- VCAM
- VEGF
- Villen and others

C. Cancer Diagnostic Testing Instrumentation Review and Market Needs

D. Current and Emerging Cancer Diagnostic Technologies

1. Monoclonal and Polyclonal Antibodies
2. Immunoassays
3. Molecular Diagnostics
4. Chromosome Analysis
 - a. Chronic Myelogenous Leukemia (CML)
 - b. Acute Myeloid Leukemia (AML)
 - c. Acute Lymphoblastic Leukemia (ALL)
 - d. Malignant Lymphomas Lymphoid Malignancies
 - e. Chronic Lymphocytic Leukemia (CLL)
 - f. Solid Cancers
 - g. Chromosomal Translocation and Oncogenes
5. Artificial Intelligence
6. Flow Cytometry
7. Two Dimensional Gel Electrophoresis (2-DGE)
8. Biosensors
9. Competing/Complementing Technologies

E. Personal Testing

Table of Contents (continued)

VIII. Country Market Analyses: Test Volume and Sales Forecasts, Supplier Shares

Australia
Bangladesh
China
Hong Kong
India
Indonesia
Japan
Malaysia
Myanmar
New Zealand
Pakistan
Philippines
Singapore
South Korea
Taiwan
Thailand
Turkey
Vietnam

IX. Competitive Profiles

The report provides strategic assessments of over 30 leading cancer diagnostics market players and start-up companies with innovative technologies and products, including:

- Abbott
- Affymetrix
- Beckman Coulter/Danaher/Cepheid
- Becton Dickinson
- bioMerieux
- Bio-Rad
- DiaSorin
- Eiken Chemical
- Elitech Group
- Enzo Biochem
- Fujirebio
- Fujifilm Wako
- Grifols
- Hologic
- Leica Biosystems
- PerkinElmer
- Qiagen
- QuidelOrtho
- Roche
- Siemens Healthineers
- Takara Bio
- Thermo Fisher and others.

List of Tables

Australia Cancer Diagnostic Volume Forecasts by Test

Australia Cancer Diagnostics Sales Forecasts by Test

Bangladesh Cancer Diagnostic Volume Forecasts by Test

Bangladesh Cancer Diagnostics Sales Forecasts by Test

China Cancer Diagnostic Volume Forecasts by Test

China Cancer Diagnostics Sales Forecasts by Test

Hong Kong Cancer Diagnostic Volume Forecasts by Test

Hong Kong Cancer Diagnostics Sales Forecasts by Test

India Cancer Diagnostic Volume Forecasts by Test

India Cancer Diagnostics Sales Forecasts by Test

Indonesia Cancer Diagnostic Volume Forecasts by Test

Indonesia Cancer Diagnostics Sales Forecasts by Test

Japan Executive Summary Table: Total Tumor
Marker Test Volume and Sales Forecast by Market Segment

Japan, Estimated Cancer Death Rates
Per 100,000 Population

Japan, Laboratories Performing Tumor
Marker Tests by Market Segment

Japan, Hospital Laboratories Performing
Tumor Marker Tests by Bed Size

Japan, Commercial/Private Laboratories
Performing Tumor Marker Tests
by Annual Test Volume

Japan, Total Tumor Marker Testing Volume
Forecast by Market Segment

Japan, All Market Segments Major Tumor
Marker Test Volume Forecast

Japan, Hospital Laboratories Major Tumor
Marker Test Volume Forecast by Test

List of Tables

Japan, Commercial/Private Laboratories Major
Tumor Marker Test Volume Forecast

Japan, Total Tumor Marker Sales
Forecast by Market Segment

Japan, All Market Segments Major Tumor
Marker Sales Forecast by Test

Japan, Hospital Laboratories Major Tumor
Marker Sales Forecast by Test

Japan, Commercial/Private Laboratories Major
Tumor Marker Sales Forecast by Test

Japan, ACTH Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, AFP Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, Beta-2 Microglobulin Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, CA 15-3/27.29 Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, CA 19-9 Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, CA-125 Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Calcitonin Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Cathepsin Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, CEA Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Chromogranin Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Colon-Specific Antigen Test Volume
and Diagnostics Sales Forecast by Market Segment

List of Tables

Japan, Cytokeratins Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Estrogen Receptor Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Ferritin Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Gastrin Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, HCG Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, Insulin Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Interferons Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Interleukins Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Lymphocyte Subtyping Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, NSE Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, Nucleolar Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Occult Blood Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Oncogenes Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Pancreatic Oncofetal Antigen
Test Volume and Diagnostics

Japan, PAP Smear Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Parathyroid Hormone
Test Volume and Diagnostics
Sales Forecast by Market Segment

List of Tables

Japan, Progesterone Receptor
Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, PAP Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, PSA Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, S-100 Protein Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Serotonin Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Sialic Acid Test Volume and
Diagnostics Sales Forecast by Market Segment

Japan, Squamous Cell Carcinoma Antigen
Test Volume and Diagnostics Sales
Forecast by Market Segment

Japan, TDT Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Thymidine Kinase
Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Thyroglobulin
Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, TPA, Test Volume and Diagnostics
Sales Forecast by Market Segment

Japan, Total Tumor Marker
Sales by Major Suppliers

Japan, AFP Testing Market Diagnostics
Sales by Major Supplier

Japan, CA 15-3/27.29 Testing Market
Diagnostics Sales by Major Supplier

Japan, CA 19-9 Testing Market Diagnostics
Sales by Major Supplier

List of Tables

Japan, CA 125 Testing Market Diagnostics
Sales by Major Supplier

Japan, Calcitonin Testing Market Diagnostics
Sales by Major Supplier

Japan, PAP Testing Market Diagnostics
Sales by Major Supplier

Japan, PSA Testing Market Diagnostics
Sales by Major Supplier

Malaysia Cancer Diagnostic Volume Forecasts by Test

Malaysia Cancer Diagnostics Sales Forecasts by Test

Myanmar Cancer Diagnostic Volume Forecasts by Test

Myanmar Cancer Diagnostics Sales Forecasts by Test

New Zealand Cancer Diagnostic Volume Forecasts by Test

New Zealand Cancer Diagnostics Sales Forecasts by Test

Pakistan Cancer Diagnostic Volume Forecasts by Test

Pakistan Cancer Diagnostics Sales Forecasts by Test

Philippines Cancer Diagnostic Volume Forecasts by Test

Philippines Cancer Diagnostic Volume Forecasts by Test

Singapore Cancer Diagnostic Volume Forecasts by Test

Singapore Cancer Diagnostics Sales Forecasts by Test

South Korea Cancer Diagnostic Volume Forecasts by Test

South Korea Cancer Diagnostics Sales Forecasts by Test

Taiwan Cancer Diagnostic Volume Forecasts by Test

Taiwan Cancer Diagnostics Sales Forecasts by Test

Thailand Cancer Diagnostic Volume Forecasts by Test

Thailand Cancer Diagnostics Sales Forecasts by Test

List of Tables

Vietnam Cancer Diagnostic Volume Forecasts by Test

Vietnam Cancer Diagnostics Sales Forecasts by Test

Tumor Marker Classification

Major Companies Developing or
Marketing ACTH Tests

Major Companies Developing or
Marketing AFP Tests

Major Companies Developing or
Marketing Beta-2 Microglobulin Tests

Major Companies Developing or
Marketing CA 15-3/27.29 Tests

Major Companies Developing or
Marketing CA 19-9 Tests

Major Companies Developing or
Marketing CA 125 Tests

Major Companies Developing or
Marketing Calcitonin Tests

Major Companies Developing or
Marketing CEA Tests

Major Companies Developing or
Marketing Estrogen Receptor Tests

Major Companies Developing or
Marketing Progesterone Receptor Tests

Major Companies Developing or
Marketing Ferritin Tests

Major Companies Developing or
Marketing Gastrin Tests

Major Companies Developing or
Marketing HCG Tests

Major Companies Developing or
Marketing Insulin Tests

List of Tables

Major Companies Developing or
Marketing NSE Tests

Major Companies Developing or
Marketing Occult Blood Tests

Major Companies Developing or
Marketing PAP Smear/HPV Tests

Major Companies Developing or
Marketing PAP Tests

Major Companies Developing or
Marketing PSA Tests

Major Companies Developing or Marketing
Lymphocyte Subclassification Tests

Biochemical Markers Potential Applications
In Cancer Diagnosis

Oncogenes Potential Applications
In Cancer Diagnosis

Major Companies Developing or
Marketing Oncogene Tests

Growth Factors Potential Applications
In Cancer Diagnosis

Colony Stimulating Factors Potential
Applications in Cancer Diagnosis

Lymphokines Potential Applications
in Cancer Diagnosis

Immunohistochemical Stains Potential
Applications in Cancer Diagnosis