



MEDICAL DEVICES



PHARMACEUTICALS



CHEMICALS



FOOD & BEVERAGE



ELECTRONICS

Table of Contents and List of Tables

Copyright 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***

Partner Reports ***www.LeadingMarketResearch.com***

VENTURE PLANNING GROUP 1271 Avenue of the Americas, Suite 4300 New York, NY 10020
Phone + 1 212 564 2838 Fax + 1 212 564 8133 ***reports@vpgcorp.com***

Table of Contents

I. Introduction

II. Worldwide Market Overview

1. Market Overview
2. Worldwide Market Structure
3. Worldwide Market Size and Growth

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

Table of Contents (continues)

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

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

Table of Contents (continues)

- 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
 - Sis
 - Src
- 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

Table of Contents (continues)

- 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
 - DU-PAN-2
 - Endometrial Bleeding Associated Factor
 - Endostatin
 - Epithelial Membrane Antigen
 - Feulgen Hydrolysis
 - Fibronectin

Table of Contents (continues)

- 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 (continues)

- 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

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 (continues)

VIII. Spain Cancer Diagnostics Market

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Test Volume and Sales Forecasts by Market Segment, Major Supplier Sales and Market Shares by Test

IX. Competitive Profiles

- Abbott
- AdnaGen/Alere
- Agilent Technologies
- Applied Gene Technologies
- Arca Biopharma
- Beckman Coulter/Danaher
- Becton Dickinson
- Biomedical Diagnostics
- bioMerieux
- Bio-Rad
- CellSearch
- Cepheid
- Correlogic Systems/Vermillion
- Decode Genetics
- Diadexus
- Diagnocure
- Diasorin
- Eiken Chemical
- Elitech Group
- Enterix
- Enzo Biochem
- Epigenomics
- Exact Sciences
- Fujirebio
- Guided Therapeutics
- Hologic/Gen-Probe
- Kreatech/Leica
- Kyowa Medex
- Mackay Life Sciences
- Myriad Genetics
- OncoLab

Table of Contents (continues)

- Ortho-Clinical Diagnostics
- Panacea Pharmaceuticals
- Polartechnics
- Polymedco
- PreMD
- Qiagen
- Quest Diagnostics
- Radient Pharmaceuticals
- Roche
- Scienion
- Sequenom
- Siemens Healthcare
- Takara Bio
- Targeted Diagnostics & Therapeutics
- Tosoh
- Thermo
- Veridex
- Wako Pure Chemicals
- Wallac/PE
- Zila

X. Appendix: Major Universities and Research Centers Developing Cancer Diagnostic Technologies and Applications

List of Tables

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

List of Tables (continues)

Major Companies Developing or Marketing
HCG Tests

Major Companies Developing or Marketing
Insulin Tests

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

List of Tables (continues)

Immunohistochemical Stains Potential Applications in Cancer Diagnosis

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

Spain, Estimated Cancer Death Rates Per 100,000 Population

Spain, Laboratories Performing Tumor Marker Tests by Market Segment

Spain, Hospital Laboratories Performing Tumor Marker Tests by Bed Size

Spain, Commercial/Private Laboratories Performing Tumor Markers by Annual Test Volume

Spain, Total Tumor Marker Test Volume Forecast by Market Segment

Spain, All Market Segment Major Cancer Diagnostic Test Volume Forecast

Spain, Hospital Laboratories Major Cancer Diagnostic Test Volume Forecast by Test

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

Spain, Total Tumor Marker Sales Forecast by Market Segment

List of Tables (continues)

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

Spain, Hospital Laboratories Major Tumor
Marker Sales Forecast by Test

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

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

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

Spain, CA 15-3 Test Volume and Diagnostics
Sales Forecast by Market Segment

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

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

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

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

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

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

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

List of Tables (continues)

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

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

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

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

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

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

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

Spain, Pancreatic Oncofetal Antigen
Test Volume and Diagnostics
Sales Forecast by Market Segment

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

Spain, Parathyroid Hormone Test Volume
And Diagnostics Sales Forecast by Market
Segment

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

List of Tables (continues)

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

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

Spain, S-100 Protein Test Volume
And Diagnostics Sales Forecast by Market
Segment

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

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

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

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

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

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

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

Spain, Total Tumor Marker Sales by Major Suppliers

List of Tables (continues)

Spain, AFP Testing Market Diagnostics
Sales by Major Supplier

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

Spain, 19-9 Testing Market Diagnostics
Sales by Major Supplier

Spain, CA 125 Testing Market Diagnostics
Sales by Major Supplier

Spain, CEA Testing Market Diagnostics
Sales by Major Supplier

Spain, PSA Testing Market Diagnostics
Sales by Major Supplier