



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

Worldwide Technology and Market Overview

A. Major Blood Typing, Grouping and Infectious Disease Screening Tests

1. Blood Typing and Grouping Tests

- a. ABO
- b. Antibody Panels
- c. Antibody Screening
- d. Antigen Typing
- e. Antiglobulin Test
- f. Crossmatch
- g. HLA Typing
- h. Rh
- i. Other Blood Groups

2. Infectious Disease Screening Tests

- a. AIDS
 - Structure and Composition
 - Classification
 - Origin of AIDS
 - Animal Lentivirus Systems
 - Virus Receptors
 - HIV Infections in Humans
 - Pathogenesis & Pathology
 - Overview of Course of HIV Infection
 - CD4T Lymphocytes and Memory Cells
 - Monocytes and Macrophages
 - Lymphoid Organs
 - Neural Cells
 - Viral Coinfections
 - Clinical Findings
 - Plasma Viral Load
 - Pediatric AIDS
 - Neurologic Disease
 - Opportunistic Infections
 - Protozoa
 - Fungi
 - Bacteria

Table of Contents (continued)

- Viruses
 - Cancer
 - Immunity
 - Laboratory Diagnosis
 - Virus Isolation
 - Serology
 - Detection of Viral Nucleic Acid or Antigens
 - Epidemiology
 - Worldwide Spread of AIDS
 - United States
 - Routes of Transmission
 - Prevention, Treatment, And Control
 - Antiviral Drugs
 - Vaccines Against HIV
 - Transmission of HIV in Blood Products
 - HIV Transmission in Transplant and Artificial Insemination Recipients
 - Diagnostic Tests
 - Enzyme Immunoassay Interpretation
 - Specificity, Sensitivity, and Predictive Value of Enzyme Immunoassay
 - Competition Assays
 - Western Blot Technique
 - Immuno-Fluorescence Assay (IFA)
 - Radioimmunoprecipitation
 - HIV-1/HIV-2 Combination Testing
 - Methods of HIV-Antigen Detection
 - Antigen Assays and Blood Screening
 - Urine Tests
 - DNA Probes
 - Overview
 - Quantitative Polymerase Chain Reaction
 - In Situ PCR
 - Needed Improvements
 - Viral Load/Drug Resistance Testing
 - Genotype and Phenotype Testing
 - Blood Banking Considerations
- b. Hepatitis
- Hepatitis A
 - Hepatitis B
 - Structure and Composition
 - Replication of Hepatitis B Virus

Table of Contents (continued)

- Hepatitis C
- Hepatitis D (Delta Hepatitis)
- Hepatitis E
- Hepatitis G
- Hepatitis Virus Infections In Humans
 - Pathology
- Clinical Findings
- Laboratory Features
 - Hepatitis A
 - Hepatitis B
 - Hepatitis C
 - Hepatitis D
 - Hepatitis E
- Virus-Host Immune Reactions
- Epidemiology
 - Hepatitis A
 - Hepatitis B
 - Hepatitis C
 - Hepatitis D (Delta Agent)
- Vaccines and Drugs
- c. Cytomegalovirus
 - Background
 - Chorioretinitis
 - Gastrointestinal
 - Central Nervous System Disease
 - Diagnostic Tests
 - Vaccines and Drugs
- d. Syphilis
 - Background
 - Diagnostic Tests
 - Vaccines and Drugs
- e. West Nile Virus
 - Background
 - Clinical Syndromes
 - Diagnostic Tests
 - Vaccines and Drugs
- f. Parvovirus B19
 - Microbiology
 - Epidemiology
 - Clinical Syndromes
 - Erythema Infectiosum Slapped (cheek)
 - Adult Polyarthropathy

Table of Contents (continued)

- Transient Aplastic Crisis
- Transient Pancytopenia
- Red Cell Aplasia in the Immunocompromised
- Perinatal Infections
- Diagnosis
- Treatment

g. Creutzfeldt-Jakob's Disease

- Background
- Transmission
- Diagnostic Tests
- Major Commercial and Academic Players
 - Bayer
 - Disease Sciences/BioTec Global
 - Imperial College School of Medicine
 - Ortho-Clinical Diagnostics
 - Pall
 - ProMetic Life Sciences
 - Proteome Sciences/Idexx
 - Q-One Biotech
 - Serono
 - U.S. Agricultural Research Service
- Drugs
- Vaccines

h. Malaria

i. Chagas Disease

j. Babesiosis

3. Pathogen Reduction

4. Leukocyte Reduction

- Background
- Methods

B. Instrumentation Review: Operating Characteristics, Features and Selling Prices of Leading Automated and Semiautomated Analyzers Manufactured by:

- Abbott
- Beckman Coulter/Danaher
- Bio-Rad
- BioMerieux
- Gen-Probe
- Grifols

Table of Contents (continued)

- Immucor
- Nanosphere
- Ortho-Clinical Diagnostics
- Roche
- Sarstedt
- Siemens
- Tecan

C. Major in Vitro Diagnostic Technologies And Their Potential Applications

1. Molecular Diagnostics
 - a. Overview
 - b. NAT
2. Monoclonal and Polyclonal Antibodies
3. Immunoassays
 - a. Technological Principle
 - b. Chemiluminescence
 - c. Enzyme Immunoassays (EIA)
 - Overview
 - ELISA
 - EMIT
 - Electrochemical
 - d. Radioimmunoassays (RIA)
 - e. Immunoprecipitation
 - f. Affinity Chromatography
4. Microtitration Plates
5. IT and Automation
6. Lasers
7. Robotics
8. Synthetic Red Cell Substitutes
9. Genetically Engineered Blood Components
 - a. Albumin
 - b. Factor VIII
 - c. Alpha-2 Antiplasmin
 - d. Antithrombin III
 - e. Factor IX
 - f. Von Willebrand's Factor
 - g. Fibrinogen
 - h. t-PA
10. Blood Preservation
11. Autologous Blood Transfusion/Freezing

Table of Contents (continued)

U.K.

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Growth and Major Suppliers'
Sales and Market Shares for Blood Typing, Grouping
and Infectious Disease Screening Tests

Major Product Development Opportunities

- A. Blood Typing and Grouping
- B. Infectious Disease Screening
- C. Auxiliary

Alternative Market Penetration Strategies

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts

Potential Market Entry Barriers and Risks

- A. Market Maturity
- B. Cost Containment
- C. Competition
- D. Technological Edge and Limitations
- E. Patent Protection

Competitive Assessments

- Abbott
- Beckman Coulter/Danaher
- Becton Dickinson
- Biokit
- BioMerieux
- Bio-Rad
- Diagast
- DiaSorin

Table of Contents (continued)

- Fujirebio
- Gen-Probe
- Grifols
- Immucor
- Innogenetics
- Ortho-Clinical Diagnostics
- Orchid CellMark
- Novartis Diagnostics
- Proteome Sciences
- Roche
- Siemens
- Tecan

List of Tables

Major Companies Developing or Marketing
Blood Typing and Grouping Tests

Major Companies Developing or Marketing
HLA Typing Tests

Major Companies Developing or Marketing
AIDS Tests

Major Companies Developing or Marketing
Hepatitis Tests

Major Companies Developing or Marketing
CMV Tests

Major Companies Developing or Marketing
Syphilis Tests

Major Companies Developing or Marketing
Blood Bank Analyzers

Executive Summary Table: U.K., Total Blood Bank
Test Volume and Reagent Sales Forecast
by Test Category

U.K., Facilities Performing Blood
Bank Tests by Market Segment

U.K., Hospital Laboratories Performing
Blood Bank Tests by Bed Size

U.K., Commercial/Private Laboratories
Performing Blood Bank Tests
by Annual Test Volume

U.K., All Market Segments Blood Typing
And Grouping Test Volume Forecast
by Market Segment

List of Tables (continued)

U.K., All Market Segments Blood Typing
And Grouping Test Volume Forecast

U.K., Hospital Laboratories Blood
Typing and Grouping Test Volume Forecast

U.K., Blood Banks Blood Typing
And Grouping Test Volume Forecast

U.K., Commercial/Private Laboratories
Blood Typing and Grouping Test Volume Forecast

U.K., All Market Segments Infectious
Disease Screening Test Volume Forecast by Market
Segment

U.K., All Market Segments Infectious
Disease Screening Test Volume Forecast

U.K., Blood Banks Infectious Disease
Screening Test Volume Forecast

U.K., Hospital Laboratories
Infectious Disease Screening Test Volume Forecast

U.K., Commercial/Private Laboratories Infectious
Disease Screening Test Volume Forecast

U.K., All Market Segments Blood Typing
And Grouping Reagent Market Forecast
By Market Segment

U.K., All Market Segments Blood Typing
And Grouping Reagent Market Forecast
by Major Test

U.K., Hospital Laboratories Blood
Typing and Grouping Reagent Market Forecast
By Major Test

List of Tables (continued)

U.K., Blood Banks Blood Typing and
Grouping Reagent Market Forecast by Major Test

U.K., All Market Segments Infectious
Disease Screening Reagent Market Forecast
By Market Segment

U.K., All Market Segments Infectious
Disease Screening Reagent Market Forecast
Segment By Test

U.K., Blood Banks Infectious Disease
Screening Reagent Market Forecast by Test

U.K., Hospital Laboratories
Infectious Disease Screening Reagent Market Forecast
By Test

U.K., Commercial/Private Laboratories Infectious
Disease Screening Reagent Market Forecast by Test

U.K., Major Suppliers of Blood Typing
And Grouping Reagents Estimated Sales
And Market Shares

U.K., HIV-1/2 Blood Screening Market,
Reagent Sales by Major Supplier

U.K., Hepatitis Blood Screening Market,
Reagent Sales by Major Supplier

U.K., Syphilis Blood Screening Market,
Reagent Sales by Major Supplier