

# 2013 Analysis of the US Transfusion Diagnostic Testing Market: Emerging Opportunities, Supplier Shares, Country Forecasts, Innovative Technologies, and Competitive Landscape

<https://marketpublishers.com/r/20C736F5352EN.html>

Date: April 2013

Pages: 460

Price: US\$ 7,840.00 (Single User License)

ID: 20C736F5352EN

## Abstracts

### Highlights

Comprehensive 460-pages market segmentation analysis of the US transfusion testing market.

Major issues pertaining to the US transfusion testing practice, as well as key economic, regulatory, demographic, social and technological trends with significant market impact during the next ten years. Specifically, the study explores the impact of anticipated changes in government regulations, trends in complicated surgeries, birth rate and other key issues.

Ten-year volume and sales forecasts for 40 blood typing, grouping and infectious disease screening tests, including NAT procedures performed in US community and regional blood centers, hospitals, commercial laboratories, and plasma fractionation facilities.

Annual placements and installed base estimates for major automated and semi-automated analyzers.

Review of current instrumentation technologies, and a feature comparison of over 20 analyzers.

Ten-year reagent and instrument sales forecasts.

Sales and market shares of leading reagent and instrument suppliers.

Review of current and emerging technologies, and their potential market applications.

Product development opportunities for instruments ,consumables, and auxiliary products.

Profiles of major current and emerging suppliers, including their sales, market shares, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements, and business strategies.

Business opportunities and strategic recommendations for suppliers.

Contains 460 pages and 53 tables

## 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

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

- 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  
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  
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

## **U.S.A.**

- A. Executive Summary
- B. Business Environment
  - 1. Overview
  - 2. Health Care Expenditures
  - 3 Cost Consciousness
  - 4. Industry Consolidation
  - 5. Managed Care
  - 6. Hospitals
  - 7. Admissions
  - 8. Length of Stay
  - 9. Industry Diversification
  - 10. Physician Demographics
  - 11. Population Aging
    - a. Chronic Illnesses
    - b. Disease Incidence
    - c. Susceptibility to Latrogenesis
    - d. Multiple Illness Cases
  - 12. Laboratory Regulations
- 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  
Fujirebio  
Gen-Probe  
Grifols  
Immucor  
Innogenetics  
Ortho-Clinical Diagnostics  
Orchid CellMark  
Novartis Diagnostics  
Proteome Sciences  
Roche  
Siemens  
Tecan

## List Of Tables

### 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.S.A., Total Blood Bank Test Volume and Reagent Sales Forecast by Test Category  
U.S.A., Estimated Number of Inpatient and Ambulatory Surgeries  
U.S.A., Facilities Performing Blood Bank Tests by Market Segment  
U.S.A., Hospital Laboratories Performing Blood Bank Tests by Bed Size  
U.S.A., Commercial/Private Laboratories Performing Blood Bank Tests by Annual Test Volume Forecast  
U.S.A., Facilities Collecting Whole Blood And Plasma by Market Forecast Segment  
U.S.A., Whole Blood and Plasma Collections By Market Forecast Segment  
U.S.A., All Market Segments Blood Typing and Grouping Test Volume by Market Forecast Segment  
U.S.A., All Market Segments Blood Typing And Grouping Test Volume Forecast  
U.S.A., Hospital Laboratories Blood Typing and Grouping Test Volume Forecast  
U.S.A., Community and Regional Blood Centers Blood Typing and Grouping Test Volume Forecast  
U.S.A., Commercial/Private Laboratories Blood Typing and Grouping Test Volume Forecast  
U.S.A., Plasma Fractionation Centers Blood Typing and Grouping Test Volume Forecast  
U.S.A., Military Blood Banks Blood Typing and Grouping Test Volume Forecast  
U.S.A., All Market Segments Infectious Disease Screening Test Volume Forecast By Market Segment  
U.S.A., All Market Segments Infectious Disease Screening Test Volume Forecast  
U.S.A., Community and Regional Centers Infectious Disease Screening Test Volume Forecast  
U.S.A., Plasma Fractionation Centers Infectious Disease Screening Test Volume Forecast  
U.S.A., Hospital Blood Banks Infectious Disease Screening Test Volume Forecast

U.S.A., Military Blood Banks Infectious Disease Screening Test Volume Forecast

U.S.A., All Market Segments Blood Typing And Grouping Reagent Market Forecast by Market Segment

U.S.A., All Market Segments Blood Typing And Grouping Reagent Market Forecast by Market Segment

U.S.A., Hospital Blood Banks Blood Typing And Grouping Reagent Market Forecast by Major Test

U.S.A., Community and Regional Blood Centers Blood Typing and Grouping Reagent Market Forecast By Major Test

U.S.A., Commercial/Private Laboratories Blood Typing and Grouping Reagent Market Forecast By Major Test

U.S.A., Plasma Fractionation Centers Blood Typing and Grouping Reagent Market Forecast By Major Test

U.S.A., Military Blood Banks Blood Typing And Grouping Reagent Market Forecast by Major Test

U.S.A., All Market Segments Infectious Disease Screening Reagent Market by Market Forecast Segment

U.S.A., All Market Segments Infectious Disease Screening Reagent Market by Market Forecast Segment

U.S.A., Community and Regional Centers Infectious Disease Screening Reagent Market Forecast By Test

U.S.A., Plasma Fractionation Centers Infectious Disease Screening Reagent Market Forecast By Test

U.S.A., Hospital Blood Banks Infectious Disease Screening Reagent Market Forecast By Test

U.S.A., Military Blood Banks Infectious Disease Screening Reagent Market Forecast By Test

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

U.S.A., HIV/HTLV Blood Screening Market, Reagent Sales by Major Supplier

U.S.A., Hepatitis Blood Screening Market, Reagents Sales by Major Supplier

U.S.A., Hepatitis C Blood Screening Market, Reagent Sales By Major Supplier

U.S.A., HIV/Hepatitis C NAT Market, Reagent Sales By Major Supplier

U.S.A., West Nile Virus NAT Market, Reagent Sales by Major Supplier

U.S.A., CMV Blood Screening Market, Reagent Sales by Major Supplier

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

## I would like to order

Product name: 2013 Analysis of the US Transfusion Diagnostic Testing Market: Emerging Opportunities, Supplier Shares, Country Forecasts, Innovative Technologies, and Competitive Landscape

Product link: <https://marketpublishers.com/r/20C736F5352EN.html>

Price: US\$ 7,840.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/20C736F5352EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970