

# **2015-2019 US Molecular Blood Typing, Grouping and Infectious Disease NAT Market: Supplier Shares, Sales Forecasts, Innovative Technologies, Competitive Strategies**

<https://marketpublishers.com/r/21B2CCC943DEN.html>

Date: June 2015

Pages: 460

Price: US\$ 7,760.00 (Single User License)

ID: 21B2CCC943DEN

## **Abstracts**

Complete report \$9,700. DataPack (test volumes, sales forecasts, supplier shares) \$6,300. 2015 2019 US Molecular Blood Typing, Grouping and Infectious Disease NAT Market is a new strategic analysis prepared by VPGMarketResearch in order to help current suppliers and potential market entrants identify and evaluate emerging opportunities and assist industry executives in developing effective business, new product development and marketing strategies.

### Rationale

During the next five years, the US blood banking market is expected to undergo significant transformation, which will result from the convergence of several trends, including more stringent regulations; advances in diagnostic technologies, IT, system engineering and automation; and intensifying competition. Some segments will start resembling commodity markets, where product positioning and differentiation are more critical than underlying technology. The changes in the marketplace will create exciting opportunities for new instruments and reagent systems, as well as auxiliary products, such as specimen preparation devices, controls, calibrators, and innovative IT applications.

### Strategic Recommendations

New product development opportunities with significant market appeal. Alternative market penetration strategies. Potential market entry barriers and risks. The report

explores future marketing and technological trends in the US; provides estimates of the test volume, instrument placements and sales; compares features of major automated and semi automated analyzers; profiles leading and emerging competitors; and identifies specific product and market opportunities facing suppliers during the next ten years. Blood Typing and Grouping Tests ABO, Antibody Panels, Antibody Screening/Indirect Antiglobulin, Antigen Typing (C, c, Duffy, E, e, I, i, Kell, Kidd, Le a, b, MN, P, S, s), Antiglobulin (Direct, C3 + IgG, IgG, C3), Crossmatching (Immediate Spin, Full Crossmatch), Rh (D, Du). Infectious Disease Screening Tests AIDS (HIV NAT, HIV 1/2), Cytomegalovirus, Hepatitis (HAV NAT, HBV NAT, HBs Ag, Anti HBc, HCV NAT, HCV, ALT/SGPT), HTLV I/II, Parvovirus B19 NAT, Syphilis, West Nile Virus NAT.

### Sales and Market Share Analysis

Sales and market share estimates of leading suppliers of blood banking of reagents and instruments, by individual product. Competitive Assessments Strategic assessments of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, and new products in R&D. Market Segmentation Analysis Comprehensive market segmentation analysis, including review of the market dynamics, trends, structure, size, growth, and key suppliers. Test volume and sales forecasts for over 40 blood banking tests, including NAT, by market segment: Blood Centers Plasma Fractionation Facilities Hospitals Commercial/Private Laboratories Military Blood Banks Current and Emerging Products Analysis of current and emerging blood banking tests. Review of automated and semi automated analyzers, including their operating characteristics, features, and selling prices.

Technology Review Assessment of current and emerging technologies, and their potential applications for the blood banking market. Comprehensive lists of companies developing or marketing new technologies and products by test.

Contains 460 pages and 53 tables

## Contents

### 1. INTRODUCTION

### 2. 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. Blood Group Genotyping

- a. PCR
- b. PCR RFLP
- c. ASPCR or PCR SSP
- d. Multiplex PCR
- e. Real Time PCR
- f. Sanger DNA Sequencing
- g. Pyrosequencing
- b. Microarrays
  - BeadChip Array
  - BloodChip
  - Genome Lab SNP Stream
  - Fluidic Microarray Systems
  - TaqMan OpenArray
- MALDI TOF MS
- Mini Sequencing

### 3. 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  
QOne Biotech  
Serono  
U.S. Agricultural Research Service  
Drugs  
Vaccines

h. Malaria

i. Chagas Disease

j. Babesiosis

4. Pathogen Reduction

5. 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

Becton Dickinson

Bio Rad

BioMerieux

Cepheid

Curtis Unyvero

Gen Probe/Hologic

GenMark

Grifols

HTG

Immucor

Life Technologies

Nanosphere

Ortho Clinical Diagnostics

Qiagen

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
- 8. 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

### **3. U.S.**

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



#### **4. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES**

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

#### **5. ALTERNATIVE MARKET PENETRATION STRATEGIES**

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

#### **6. POTENTIAL MARKET ENTRY BARRIERS AND RISKS**

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

#### **7. COMPETITIVE ASSESSMENTS**

Abbott  
Beckman Coulter/Danaher  
Becton Dickinson  
Biokit  
BioMerieux  
Bio Rad  
CellMark Forensics/LabCorp  
Diagast  
DiaSorin  
Fujirebio  
Hologic/Gen Probe  
Grifols  
Immucor  
Ortho Clinical Diagnostics  
Proteome Sciences  
Quest Diagnostics

Quidel  
Roche  
Siemens  
Tecan  
Thermo Fisher

## 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: 2015-2019 US Molecular Blood Typing, Grouping and Infectious Disease NAT Market: Supplier Shares, Sales Forecasts, Innovative Technologies, Competitive Strategies

Product link: <https://marketpublishers.com/r/21B2CCC943DEN.html>

Price: US\$ 7,760.00 (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/21B2CCC943DEN.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

