

US Molecular Blood Typing, Grouping and Infectious Disease NAT Market, 2019-2023: Supplier Shares, Sales Forecasts by Test and Market Segment, Competitive Strategies, Technology Trends, Instrumentation Review

https://marketpublishers.com/r/U16EE6B69F4EN.html

Date: July 2019

Pages: 465

Price: US\$ 4,500.00 (Single User License)

ID: U16EE6B69F4EN

Abstracts

This comprehensive report is designed to help current suppliers and potential market entrants identify and evaluate emerging opportunities in the US molecular blood banking market during the next five years, and assist industry executives in developing effective business, new product development and marketing strategies.

The report explores future marketing and technological trends in US; provides test volume and sales forecasts by market segment/test location; 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 five years.

Blood Group Genotyping

PCR, PCR-RFLP, AS-PCR or PCR-SSP, Multiplex PCR, Real Time PCR, Sanger DNA Sequencing, Pyrosequencing

Microarrays

BeadChip Array, BloodChip, Genome Lab SNP Stream, Fluidic Microarray Systems, TaqMan OpenArray, MALDI-TOF-MS, Mini-Sequencing

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 for leading suppliers of blood banking products 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 typing, grouping and infectious disease screening 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 typing, grouping and infectious disease screening tests.

Review of automated and semi-automated analyzers.

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.

Strategic Recommendations

New product development opportunities with significant market appeal.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Contains 465 pages and 48 tables



Contents

I. INTRODUCTION

II. 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. AS-PCR 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

Pediactric 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
- 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
- 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

III. 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

IV. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES



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

V. ALTERNATIVE MARKET PENETRATION STRATEGIES

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

VI. POTENTIAL MARKET ENTRY BARRIERS AND RISKS

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

VII. 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: US Molecular Blood Typing, Grouping and Infectious Disease NAT Market, 2019-2023:

Supplier Shares, Sales Forecasts by Test and Market Segment, Competitive Strategies,

Technology Trends, Instrumentation Review

Product link: https://marketpublishers.com/r/U16EE6B69F4EN.html

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

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

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/U16EE6B69F4EN.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
	Custumer 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