

2017 US Automated Microbiology Market: New Frontiers, Business Challenges, Emerging Technologies, Competitive Landscape

<https://marketpublishers.com/r/U4310A9B0BBEN.html>

Date: March 2017

Pages: 436

Price: US\$ 8,865.00 (Single User License)

ID: U4310A9B0BBEN

Abstracts

Complete report \$9,850. DataPack (test volumes, sales forecasts, supplier shares) \$6,400.

VPGMktResearch.com's new report is an analysis of the major business opportunities emerging in the automated microbiology market during the next five years. The report examines key trends in the U.S. automated microbiology market; reviews current and emerging assays; analyzes potential applications of innovative diagnostic technologies; forecasts volume and sales for molecular diagnostic, microbial identification, antibiotic susceptibility, blood culture, urine screening and immunodiagnostic procedures, as well as over 100 infectious disease tests by assay, application, market segment, profiles leading players and potential market entrants; and suggests alternative business expansion strategies for suppliers.

Rationale

The level of automation in the microbiology laboratory has been lagging behind that of other major clinical laboratory segments, such as chemistry and hematology. The slow acceptance of the technology is in part due to the complexity of developing automation suitable for microbiology tests.

The introduction of automated microbiology instrumentation has been delayed by a number of intrinsic and technical problems. The diffusion of automated microbiology systems, once the technology was developed, has not matched that of other automated laboratory technologies. The acquisition of automation in microbiology has been slowed by forces less easily identifiable than the effects of various reimbursement plans. Some

laboratorians still believe that current instrumentation is not the ultimate technology and expect better automation on the horizon.

The driving force behind the need for rapid reporting of microbiological test results is the clinical relevance in a time of financial austerity, a time when cost and health care effectiveness to the patient and diagnostician looms ever larger, and where after-the-fact results at high expense are coming under severe scrutiny worldwide.

This comprehensive report will assist diagnostics industry executives, as well as companies planning to diversify into the dynamic and rapidly expanding microbiology market, in evaluating emerging opportunities and developing effective business strategies.

Supplier Shares, Sales and Volume Forecasts

Sales and market shares of major suppliers of microbiology products, by individual test.

Five-year test volume and sales forecasts for over 100 microbiology assays.

Test volume estimates by method (molecular, serology/immunodiagnostics, culture/microscopy).

U.S. Market Overview

Review of the market dynamics, trends, structure, size, growth and major suppliers.

Estimated universe of laboratories performing microbiology testing.

Specimen, test volume and sales forecasts.

Business Opportunities and Strategic Recommendations

Emerging opportunities for new analyzers, reagents kits, IT and other products with significant market appeal during the next five years.

Design criteria for decentralized testing products.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Specimen Types

Urine

Sterile Fluids: Blood, Serum, CSF

Throat Swabs, Respiratory Secretions

Genital Secretions

Stool

Abscess/Wound

Sputum

Saliva

Applications

Microbial Identification

Antibiotic Susceptibility

Urine Screening

Blood Cultures

Review of Major Automated Systems

Review of major automated molecular diagnostic, multipurpose, specialized, microbial identification, antibiotic susceptibility, blood culture, urine screening, and immunodiagnostic analyzers.

The report features analyzers manufactured by Abbott, Alifax, Anagen, BD, Beckman Coulter/Danaher, Biochem, Biolog, bioMerieux, Bio-Rad, Biotrol, Cepheid, Curetis, GenMark, Hologic/Gen-Probe, HTG, Iris, J&J, Labsystems, Life Technologies, MiDI, Olympus, Qiagen, Roche, Siemens, Sy-Lab, Sysmex, Tecan, Thermo Fisher, Tosoh.

Infectious Diseases Analyzed in the Report

AIDS/HIV, Adenovirus, Aeromonads, Bartonella, Blastocystis Hominis, Campylobacter, Candida, Chancroid, Chlamydia, Clostridium, Coronavirus, Coxsackievirus, Cryptosporidium, Cyclospora, CMV, E. Coli, Echovirus, Encephalitis, Enterovirus, EBV, Giardia, Gonorrhea, Granuloma Inguinale, Hantavirus, H. Pylori, Hepatitis, Herpes, Influenza, Legionella, Lyme disease, Lymphogranuloma, Malaria, Measles, Meningitis, Microsporidium, Mononucleosis, Mumps, Mycoplasma, HPV, Parvovirus, Pneumonia, Polyomaviruses, Pseudomonas, Rabies, RSV, Rhinovirus, Rotavirus, Rubella, Salmonella, Septicemia, Shigella, Staphylococci, Streptococci, Syphilis, Toxoplasmosis, Trichomonas, TB, Vibrio, West Nile, Yersinia and others.

Technology Assessment

Assessment of molecular diagnostic, monoclonal antibody, immunoassay, and other technologies and their potential applications for the microbiology market.

Global listings of companies developing or marketing microbiology products by individual test.

Competitive Strategies

Strategic assessments of major suppliers and start-up firms developing innovative technologies and products, including their sales, product portfolios, marketing tactics, collaborative arrangements, and new products in R&D.

The companies analyzed in the report include:

Abbott

Affymetrix

Agilent Technologies

Applied Gene Technologies

Arca Biopharma

Beckman Coulter/Danaher

Becton Dickinson

Biokit

bioMerieux

Bio-Rad

Biotest

CellMark Forensics/LabCorp

Cepheid

Decode Genetics

Diadexus

Diamedix

DiaSorin

Eiken Chemical

Elitech Group

Enzo Biochem

Exact Sciences

Fujirebio

Grifols

Hologic/Gen-Probe

ID Biomedical/GSK

Illumina

Kreatech/Leica

Li-Cor Biosciences

Lonza

Monogram Biosciences

Myriad Genetics

Ortho-Clinical Diagnostics

Perkin Elmer/Caliper Life Sciences

Proteome Sciences

Qiagen

Roche

Scienion

Sequenom

SeraCare

Shimadzu

Siemens

Sierra Molecular

Takara Bio

Tecan

Thermo Fisher

Wallac/P

Wako

Contains 436 pages and 94 tables

Contents

1. INTRODUCTION

2. WORLDWIDE MARKET AND TECHNOLOGY OVERVIEW

a. INTRODUCTION

1. MAJOR FACTORS AFFECTING MARKET PENETRATION of Microbiology

INSTRUMENTATION

2. TRADITIONAL PRACTICES

3. TECHNOLOGICAL CHALLENGES

4. AUTOMATION: IMPACT ON THE MICROBIOLOGY

Laboratory and the Patient

b. Major Specimen Types

1. URINE

2. STERILE FLUIDS: BLOOD, SERUM, AND CSF

3. THROAT SWABS AND RESPIRATORY SECRETIONS

4. GENITAL SECRETIONS

5. STOOL

6. ABSCESS/WOUND

7. SPUTUM

8. SALIVA

c. Test Applications

1. MICROBIAL IDENTIFICATION

2. ANTIBIOTIC SUSCEPTIBILITY

3. URINE SCREENING

a. Photometry

b. Bioluminescence

c. Colorimetric Filtration

d. Enzymatic Detection

e. Optical Detection

4. BLOOD CULTURES

d. Major Microbiology Automated and Semiautomated Systems

1. MULTIPLE PURPOSE MICROBIOLOGY SYSTEMS

2. SPECIALIZED MICROBIOLOGY SYSTEMS

3. MOLECULAR DIAGNOSTIC SYSTEMS

4. IMMUNODIAGNOSTIC SYSTEMS

e. Emerging Diagnostic Technologies

1. MOLECULAR DIAGNOSTICS (AMPLIFICATION METHODS, SEQUENCING,

MICROARRAYS/BIOCHIPS)

a. DNA Sequencing

INTRODUCTION

Sequencing Methods

Autoradiography

The Human Genome Project

Sequencing Automation

Image Scanners

Fluorescent Detection

Gene Profiling

Gene Expression

Polymorphism Screening

Protein Interaction Networks

b. DNA And RNA Probe Technology

Basic Principles

Probe Preparation

The DNA Probe Test

Sample Preparation

Hybridization

Separation

Detection/Measurement

Test Formats

Filter Hybridization

Southern Blot

Northern Blot

In Situ Hybridization

Others

Labeling Techniques

Amplification Methods

Polymerase Chain Reaction

Temperature Cyclers

PCR Variations

Immuno PCR

QC PCR

DAP PCR

Strand Displacement Activation

TMA

- Ligase Chain Reaction
- Branched DNA
- Hybridization Protection Assay
 - Nucleic Acid Sequence Based Amplification
 - Self Sustained Sequence Replicase
 - Others
- Ampliprobe
- CAR
- CAS
- CPT
- Dendritic Polymer Technology
- ISo CR
- LAT
- Probe
- RAMP
- Repair Chain Reaction
- Rolling Circles
- Sequence Independent Gene Amplification
- Sequence Initiation Reaction
- SISPA
- Solid Phase Amplification
 - c. Detection Technologies
- Radioactive Methods
 - Overview
 - Major Isotopes
 - P
 - S
 - H
 - I
- NonIsotopic Methods
 - Enzymatic Labels
 - Chemical Labeling
 - Indirect Chemical Labeling
 - Direct Chemical Labeling
 - Fluorescence
 - Chemiluminescence
 - Electrical Conductivity
 - d. Biochips: Genosensors, Microarrays, and Labs on the Chip
 - Liquid Transportation and Mixing

Separation

Reaction

Detection

2. MONOCLONAL ANTIBODIES

3. IMMUNOASSAYS

4. DIFFERENTIAL LIGHT SCATTERING

5. INFORMATION TECHNOLOGY

6. ARTIFICIAL INTELLIGENCE

7. LIPOSOMES

8. FLOW CYTOMETRY

9. CHROMATOGRAPHY

10. DIAGNOSTIC IMAGING

11. GEL MICRODROPLETS

12. OTHER

3. U.S.

a. Business Environment

b. Market Structure

c. Market Size, Growth and Major Supplier Sales and Market Shares

4. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

5. DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

6. ALTERNATIVE MARKET PENETRATION STRATEGIES

a. Internal Development

b. Collaborative Arrangements

c. University Contracts

d. Distribution Strategies for Decentralized Testing Markets

1. MARKETING APPROACHES

2. PRODUCT COMPLEXITY

3. CUSTOMER PREFERENCE

4. ESTABLISHED SUPPLIERS

5. EMERGING SUPPLIERS

6. MAJOR TYPES OF DISTRIBUTORS

7. MARKET SEGMENTATION

7. 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

8. COMPETITIVE ASSESSMENTS

Abbott
Affymetrix
Agilent Technologies
Applied Gene Technologies
Arca Pharma
Beckman Coulter/Danaher
Becton Dickinson
Biokit
bioMerieux
Bio Rad
Biotest
Cepheid
CellMark Forenciscs/Lab Corp
Decode Genetics
Diadexus
Diamedix
DiaSorin
Eiken Chemical
Elitech Group
EnzBiochem
Exact Sciences
Fujirebio
Grifols
Hologic/GenProbe
Illumina
ID Biomedical/GSK
Kreatech/Leica

LiCor Biosciences
Lonza
Monogram Biosciences
Myriad Genetics
Ortho Clinical Diagnostics
Perkin Elmer/Caliper
Proteome Sciences
Qiagen
Roche
Scienion
Sequenom
SeraCare
Siemens
Sierra Molecular
Shimadzu
Takara Bio
Tecan
ThermoFisher
Wallac/PE
Wako

List Of Tables

LIST OF TABLES

Major Companies Developing or Marketing AIDS Tests
Major Companies Developing or Marketing Adenovirus Tests
Major Companies Developing or Marketing Bartonella Tests
Major Companies Developing or Marketing Campylobacter Tests
Major Companies Developing or Marketing Candida Tests
Major Companies Developing or Marketing Chlamydia Tests
Major Companies Developing or Marketing Clostridium Tests
Major Companies Developing or Marketing Coronavirus Tests
Major Companies Developing or Marketing Cryptosporidium Tests
Major Companies Developing or Marketing CMV Tests
Major Companies Developing or Marketing Echovirus Tests
Major Companies Developing or Marketing Enterovirus Tests
Major Companies Developing or Marketing EBV Tests
Major Companies Developing or Marketing Giardia Tests
Major Companies Developing or Marketing Gonorrhea Tests
Major Companies Developing or Marketing Hantavirus Tests
Major Companies Developing or Marketing Helicobacter Pylori Tests
Major Companies Developing or Marketing Hepatitis Tests
Major Companies Developing or Marketing Herpes Tests
Major Companies Developing or Marketing Influenza Tests
Major Companies Developing or Marketing Legionella Tests
Major Companies Developing or Marketing Lyme Disease Tests
Major Companies Developing or Marketing Lymphogranuloma Tests
Major Companies Developing or Marketing Malaria Tests
Major Companies Developing or Marketing Measles Tests
Major Companies Developing or Marketing Meningitis Tests
Major Companies Developing or Marketing Microsporidium Tests
Major Companies Developing or Marketing Mononucleosis Tests
Major Companies Developing or Marketing Mumps Tests
Major Companies Developing or Marketing Mycoplasma Tests
Major Companies Developing or Marketing Papilloma Virus Tests
Major Companies Developing or Marketing Parvovirus Tests
Major Companies Developing or Marketing Pneumonia Tests
Major Companies Developing or Marketing RSV Tests
Major Companies Developing or Marketing Rotavirus Tests

Major Companies Developing or Marketing Rubella Tests
Major Companies Developing or Marketing Salmonella Tests
Major Companies Developing or Marketing Septicemia Tests
Major Companies Developing or Marketing Shigella Tests
Major Companies Developing or Marketing Staphylococci Tests
Major Companies Developing or Marketing Streptococci Tests
Major Companies Developing or Marketing Syphilis Tests
Major Companies Developing or Marketing Toxoplasmosis Tests
Major Companies Developing or Marketing Trichomonas Tests
Major Companies Developing or Marketing Tuberculosis Tests
Major Companies Developing or Marketing West Nile Tests
Major Companies Developing or Marketing Yersinia Tests
U.S.A. Laboratories Performing Microbiology Tests by Market Segment
U.S.A. Hospital Laboratories Performing Microbiology Tests by Bed Size
U.S.A. Commercial/Private Laboratories Performing Microbiology Tests by Annual Test Volume
U.S.A. All Market Segments Microbiology Specimen Volume
U.S.A. Hospital Laboratories Microbiology Specimen Volume
U.S.A. Physician Offices/Group Practices Microbiology Specimen Volume
U.S.A. Public Health Laboratories Microbiology Specimen Volume
U.S.A. Commercial/Private Laboratories Microbiology Specimen Volume
U.S.A. Microbiology Test Volume by Market Segment
U.S.A. Microbiology Test Volume by Application
U.S.A. Microbial Identification Test Volume by Market Segment
U.S.A. Urine Screening Test Volume by Market Segment
U.S.A. Blood Culture Test Volume by Market Segment
U.S.A. Antibiotic Susceptibility Test Volume by Market Segment
U.S.A. Microbiology Consumables Market by Application
U.S.A. Microbiology Consumables Market by Market Segment
U.S.A. Microbial Identification Consumables Sales by Market Segment
U.S.A. Antibiotic Susceptibility Consumables Sales by Market Segment
U.S.A. Blood Culture Consumables Sales by Market Segment
U.S.A. Urine Screening Consumables Sales by Market Segment
U.S.A. All Market Segments Infectious Disease Test Volume Forecast by Assay
U.S.A. All Market Segments Infectious Disease Diagnostics Market Forecast by Test
U.S.A. Infectious Disease Blood Screening NAT Volume Forecast by Assay
U.S.A. Infectious Disease Blood Screening NAT Reagent Market Forecast by Assay
U.S.A. HIV/AIDS Testing Market Diagnostics Sales by Major Supplier
U.S.A. HIV/Hepatitis Blood Screening NAT Market Diagnostics Sales by Major Supplier

U.S.A. Adenovirus Testing Market Diagnostics Sales by Major Supplier
U.S.A. Campylobacter Testing Market Diagnostics Sales by Major Supplier
U.S.A. Candida Testing Market Diagnostics Sales by Major Supplier
U.S.A. Chancroid Testing Market Diagnostics Sales by Major Supplier
U.S.A. Chlamydia Testing Market Diagnostics Sales by Major Supplier
U.S.A. CMV Testing Market Diagnostics Sales by Major Supplier
U.S.A. Cryptosporidium Testing Market Diagnostics Sales by Major Supplier
U.S.A. Echovirus Testing Market Diagnostics Sales by Major Supplier
U.S.A. Enterovirus Testing Market Diagnostics Sales by Major Supplier
U.S.A. EBV Testing Market Diagnostics Sales by Major Supplier
U.S.A. Giardia Testing Market Diagnostics Sales by Major Supplier
U.S.A. Gonorrhea Testing Market Diagnostics Sales by Major Supplier
U.S.A. Helicobacter Pylori Testing Market Diagnostics Sales by Major Supplier
U.S.A. Hepatitis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Hepatitis C Testing Market Diagnostics Sales by Major Supplier
U.S.A. Herpes Testing Market Diagnostics Sales by Major Supplier
U.S.A. Influenza Testing Market Diagnostics Sales by Major Supplier
U.S.A. Legionella Testing Market Diagnostics Sales by Major Supplier
U.S.A. Lyme Disease Testing Market Diagnostics Sales by Major Supplier
U.S.A. Measles Testing Market Diagnostics Sales by Major Supplier
U.S.A. Meningitis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Mononucleosis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Mumps Testing Market Diagnostics Sales by Major Supplier
U.S.A. Mycoplasma Testing Market Diagnostics Sales by Major Supplier
U.S.A. Pneumonia Testing Market Diagnostics Sales by Major Supplier
U.S.A. Rabies Testing Market Diagnostics Sales by Major Supplier
U.S.A. RSV Testing Market Diagnostics Sales by Major Supplier
U.S.A. Rotavirus Testing Market Diagnostics Sales by Major Supplier
U.S.A. Rubella Testing Market Diagnostics Sales by Major Supplier
U.S.A. Salmonella Testing Market Diagnostics Sales by Major Supplier
U.S.A. Septicemia Testing Market Diagnostics Sales by Major Supplier
U.S.A. Shigella Testing Market Diagnostics Sales by Major Supplier
U.S.A. Streptococci Testing Market Diagnostics Sales by Major Supplier
U.S.A. Syphilis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Toxoplasmosis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Tuberculosis Testing Market Diagnostics Sales by Major Supplier
U.S.A. Molecular Diagnostics Market Sales and Shares of Major Suppliers

I would like to order

Product name: 2017 US Automated Microbiology Market: New Frontiers, Business Challenges, Emerging Technologies, Competitive Landscape

Product link: <https://marketpublishers.com/r/U4310A9B0BBEN.html>

Price: US\$ 8,865.00 (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/U4310A9B0BBEN.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

