

# US Automated Microbiology Market, 2019-2023: Supplier Shares and Strategies, Volume and Sales Forecasts for 100 Molecular, Identification, Susceptibility, Blood Culture, Urine Screening and Immunodiagnostic Tests, Technologies, Instrumentation

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## **Abstracts**

LeadingMarketResearch.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 marketed by Abbott, Alifax, BD, Beckman Coulter/Danaher, Biolog, bioMerieux, Bio-Rad, Cepheid, Curetis, GenMark, Hologic, HTG, Labsystems, Qiagen, Roche, Siemens Healthineers, Sy-Lab, Sysmex, Tecan, Thermo Fisher, Tosoh and other suppliers.

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.

Contains 436 pages and 94 tables



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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-32 S-35 H-3 I-125 Non-Isotopic 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

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Cepheid

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Diamedix

DiaSorin

Eiken Chemical

Elitech Group

Enzo Biochem

**Exact Sciences** 

Fujirebio

Grifols

Hologic/Gen-Probe

Illumina

ID Biomedical/GSK

Kreatech/Leica

Li-Cor Biosciences

Lonza

Monogram Biosciences

Myriad Genetics

**Ortho-Clinical Diagnostics** 



Perkin Elmer/Caliper

**Proteome Sciences** 

Qiagen

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Toxoplasmosis Testing Market Diagnostics Sales by Major Supplier U.S.A.

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Molecular Diagnostics Market Sales and Shares of Major Suppliers



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