

2023-2028 North America Automated Microbiology Market in the US, Canada, Mexico-Growth Opportunities, 2023 Supplier Shares by Assay, Five-Year Segmentation Forecasts for over 100 Molecular, Identification, Susceptibility, Culture, Urine Screening and Immunodiagnostic Tests-Competitive Strategies and SWOT Analysis, Instrumentation Pipeline, Emerging Technologies, Market Barriers and Risks

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Abstracts

This new 3-country report from LeadingMarketResearch.com is available by country, market segment, section, or individual test.

The survey is designed to help current suppliers and potential market entrants identify and evaluate emerging opportunities in the automated microbiology market during the next five years. The report is available by section, and can be customized to specific information needs and budget. The report examines key trends; reviews current and emerging assays; analyzes potential applications of innovative diagnostic technologies; forecasts volume and sales for 100 molecular diagnostic, microbial identification, antibiotic susceptibility, blood culture, urine screening and immunodiagnostic procedures; 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 laboratories 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 3-country survey 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.

Country Analyses

Canada, Mexico, USA

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, Halifax, 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.

Technology Review

Assessment of molecular diagnostic, monoclonal antibody, immunoassay, and

other technologies and their potential applications for the microbiology market.

Companies developing or marketing microbiology products, by individual test.

Competitive Assessments

Strategic assessments of major suppliers and emerging market entrants, including their sales, product portfolios, marketing tactics, collaborative arrangements and new products in R&D.

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.

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- IV. Design Criteria for Decentralized Testing Products
- V. Alternative Market Penetration Strategies
- VI. Potential Market Entry Barriers and Risks
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1. MAJOR FACTORS AFFECTING MARKET PENETRATION FOR 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 Automated and Semi-automated Microbiology Systems

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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
- b. DNA and RNA Probe Technologies
- c. Detection Technologies
- d. Biochips: Genosensors, Microarrays, Labs-on-the-Chip

2. MONOCLONAL ANTIBODIES

3. IMMUNOASSAYS

4. DIFFERENTIAL LIGHT SCATTERING

5. INFORMATION TECHNOLOGY

6. ARTIFICIAL INTELLIGENCE

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10. DIAGNOSTIC IMAGING

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VIII. Country Analyses: Sales and Volume Forecasts for 100 Molecular Diagnostic, Microbial

Identification, Antibiotic Susceptibility, Blood Culture, Urine Screening, and Immunodiagnostic Tests,

Supplier Shares

- Canada

- Mexico

- USA

IX. Competitive

Assessments

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- Agilent Technologies

- Beckman Coulter/Danaher

- bioMerieux

- Bio-Rad

- DiaSorin

- Eiken Chemical

- Fujifilm Wako

- Fujirebio

- Grifols

- Instrumentation Laboratory/Werfen

- Kyowa Medex

- OrthoQuidel

- PerkinElmer

- Quest Diagnostics

- Roche

- Siemens Healthineers

- Sysmex

- Thermo Fisher

- Tosoh

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