

# **2023-2028 Australia Automated Microbiology Market-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**

<https://marketpublishers.com/r/2254204FF896EN.html>

Date: November 2023

Pages: 0

Price: US\$ 1,960.00 (Single User License)

ID: 2254204FF896EN

## **Abstracts**

This new report from LeadingMarketResearch.com examines current and emerging assays; 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 and application; profiles leading players and potential market entrants; and suggests alternative market penetration strategies for suppliers. The report is available by section, and can be customized to specific information needs and budget.

### 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 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.

### Market Segmentation Analysis

Volume and sales forecasts for over 100 infectious disease assays by individual test.

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

### 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.

### 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, 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.

Global listings of 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.

## Contents

- I. Introduction
- II. Automated Microbiology Market Business Environment
- III. New Product Development Opportunities
- IV. Design Criteria for Decentralized Testing Products
- V. Alternative Market Penetration Strategies
- VI. Potential Market Entry Barriers and Risks
- VII. Market and Technology Overview
- A. Introduction

### **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**

Table of Contents

(continued)

D. Major Automated and Semi-automated Microbiology 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
- 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**

#### **7. LIPOSOMES**

#### **8. FLOW CYTOMETRY**

#### **9. CHROMATOGRAPHY**

#### **10. DIAGNOSTIC IMAGING**

## 11. GEL MICRODROPLETS

## 12. OTHER

### VIII. Country Analysis

#### A. Business Environment

#### B. Market Structure

#### C. Market Size, Growth and Major Supplier Sales and Market Shares

### IX. Competitive

#### Assessments

- Abbott Laboratories
- 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



## I would like to order

Product name: 2023-2028 Australia Automated Microbiology Market-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

Product link: <https://marketpublishers.com/r/2254204FF896EN.html>

Price: US\$ 1,960.00 (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/2254204FF896EN.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