

# New Frontiers in the UK Automated Microbiology Market: Business Challenges, Emerging Technologies, Competitive Landscape

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# **Abstracts**

Complete report \$6,950. DataPack (test volumes, sales forecasts, supplier shares) \$4,500.

New Frontiers in theUK Automated Microbiology Markets: Business Challenges, Emerging Technologies, Competitive Land scape is Venture Planning Group's new analysis of the major business opportunities emerging in the automated microbiology market during the next five years. The report examines key trends in theUK 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 expand ing 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).

#### **UK 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, Cand ida, 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 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/Nuvelo

Beckman Coulter/Danaher

**Becton Dickinson** 

Biokit

bioMerieux

**Bio-Rad** 

Biotest

Caliper

Cepheid

Decode

Diadexus

Diamedix

DiaSorin

**Eiken Chemical** 



Enzo Biochem

**Exact Sciences** 

Fujirebio/Innogenetics

Hologic/Gen-Probe

Illumina

ID Biomedical/GSK

Kreatech

**Li-Cor Biosciences** 

Lonza

**Monogram Biosciences** 

**Myriad Genetics** 

Nanogen/Elitech

Novartis Diagnostics/Grifols

**Orchid CellMark** 

**Ortho-Clinical Diagnostics** 

**Proteome Sciences** 

Qiagen

Roche

Scienion

Sequenom

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SeraCare

Siemens

Sierra Molecular

Shimadzu

Takara Bio

Tecan

Thermo Fisher/Life Technology

Wallac/PE

Wako

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- 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 Detection 2. Monoclonal Antibodies

3. Immunoassays



- 4. Differential Light Scattering
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