

# 2024 Emerging Microbiology Testing Technologies and Strategic Profiles of Leading Suppliers

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## Abstracts

This 155-page report provides detailed analyses of current and emerging technologies, and their potential applications for the microbiology testing market, including molecular diagnostics, biochips, monoclonal antibodies, immunoassays, IT, gel microdroplets, differential light scattering, chromatography and several others.

## Contents

Current and Emerging Technologies

Molecular Diagnostics

a. Technology Overview

b. Amplification Methods

### **0 POLYMERASE CHAIN REACTION**

- Temperature Cyclers

- PCR Variations

### **0 IMMUNO-PCR**

### **0 QC-PCR**

### **0 DAP-PCR**

### **0 LIGASE CHAIN REACTION**

### **0 BRANCHED DNA**

### **0 Q-BETA REPLICASE**

### **0 NUCLEIC-ACID SEQUENCE-BASED**

### **0 STRAND DISPLACEMENT ACTIVATION**

Monoclonal Antibodies

Immunoassays

a. Technological Principle

b. Enzyme Immunoassays (EIA)

### **0 OVERVIEW**

### **0 ELISA**

### **0 DOT IMMUNOBINDING ASSAYS**

**0 CAPILLARY IMMUNOASSAYS****0 PARTICLE-MEMBRANE CAPTURE IMMUNOASSAYS****0 ENZYME AMPLIFICATION**

c. Fluorescent Immunoassays

**0 FLUORESCENCE POLARIZATION****0 TIME-RESOLVED PULSE FLUORESCENCE**

d. Luminescence

**0 CHEMILUMINESCENCE****0 BIOLUMINESCENCE**

e. Latex Agglutination

f. Immunoprecipitation

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IT

Artificial Intelligence

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Flow Cytometry

Chromatography

MRI

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- Affymetrix

- Beckman Coulter/Danaher

- Becton Dickinson

- bioMérieux

- Bio-Rad

- Cepheid

- Diamedix
- DiaSorin
- Eiken Chemical
- Elitech Group
- Enzo Biochem
- Fujirebio
- Grifols
- Hologic/Gen-Probe
- ID Biomedical
- Kreatech/Leica

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