









MEDICAL DEVICES

PHARMACEUTICALS

CHEMICALS

FOOD & BEVERAGE

ELECTRONICS

INFECTIOUS DISEASE TESTING TECHNOLOGIES Market Applications of Current and Emerging Technology

Table of Contents

Copyright VENTURE PLANNING GROUP This material is confidential for use by our clients only and may not be reprinted or reproduced.

VPG Publications, Consulting, Clients www.VPGcorp.com

VPG Market Research Reports www.VPGMarketResearch.com

Partner Reports www.LeadingMarketResearch.com

VENTURE PLANNING GROUP 1271 Avenue of the Americas, Suite 4300 New York, NY 10020 Phone + 1 212 564 2838 Fax + 1 212 564 8133 *reports@vpgcorp.com*

INFECTIOUS DISEASE TESTING TECHNOLOGIES: Market Applications of Current and Emerging Technology

Table of Contents

- 1. Molecular Diagnostics
 - a. Technology Overview
 - b. Amplification Methods
 - Polymerase Chain Reaction
 - Temperature Cyclers
 - PCR Variations
 - o Immuno-PCR
 - ^o QC-PCR
 - ^o DAP-PCR
 - o Ligase Chain Reaction
 - Branched DNA
 - ^o Q-Beta Replicase
 - ^o Nucleic-Acid Sequence-Based
 - ^o Strand Displacement Activation
- 2. Monoclonal Antibodies
- 3. Immunoassays
 - a. Technological Principle
 - b. Enzyme Immunoassays (EIA)
 - 0 Overview
 - o ELISA
 - ^o Dot Immunobinding Assays
 - O Capillary Immunoassays
 - ^o Particle-Membrane Capture Immunoassays
 - Enzyme Amplification
 - c. Fluorescent Immunoassays
 - ^o Fluorescence Polarization
 - ^o Time-Resolved Pulse Fluorescence
 - d. Luminescence
 - ^o Chemiluminescence
 - o Bioluminescence
 - e. Latex Agglutination
 - f. Immunoprecipitation

Table of Contents (continued)

- 4. Differential Light Scattering
- 5. IT
- 6. Artificial Intelligence
- 7. Liposomes
- 8. Flow Cytometry
- 9. Chromatography
- 10. MRI
- **11.** Gel Microdroplets
- **12.** Other