

2015 Analysis of Molecular Diagnostic Technologies, and Strategic Profiles of Leading Suppliers

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Abstracts

This 180-page report provides detailed analyses of current and emerging molecular diagnostic technologies, and their potential market applications, including DNA sequencing, RNA probes, detection technologies, biochips, genosensors, microarrays, labs-on-the-chip, and other. The report also presents strategic assessments of current and emerging suppliers of molecular diagnostics products, including their sales, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements, and business strategies.

Contains 180 pages

Contents

DNA Sequencing

1. Introduction
2. Sequencing Methods
3. Autoradiography
4. The Human Genome Project
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7. Fluorescent Detection
8. Gene Profiling
9. Gene Expression
10. Polymorphism Screening
11. Protein Interaction Networks

DNA And RNA Probe Technology

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2. Probe Preparation
3. The DNA Probe Test
 - a. Sample Preparation
 - b. Hybridization
 - c. Separation
 - d. Detection/Measurement
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 - a. Filter Hybridization
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 - c. Northern Blot
 - d. In Situ Hybridization
 - e. Others
5. Labeling Techniques
6. Amplification Methods
 - Polymerase Chain Reaction
 - Temperature Cyclers
 - PCR Variations
 - Immuno- PCR
 - QC- PCR
 - DAP- PCR

Strand Displacement Activation

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 Networks

RAMP

Repair Chain Reaction

Rolling Circles

Sequence Independent Gene Amplification

Sequence Initiation Reaction

SISPA

Solid Phase Amplification

Detection Technologies

1. Radioactive Methods

a. Overview

b. Major Isotopes

P- 32

S- 35

H- 3

I- 125

2. Non- Isotopic Methods

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b. Chemical Labeling

Indirect Chemical Labeling

Direct Chemical Labeling

c. Fluorescence

d. Chemiluminescence

e. Electrical Conductivity

Biochips: Genosensors, Microarrays, and Labs- on- the- Chip
Liquid Transportation and Mixing
Separation
Reaction
Detection

Competitive Profiles

Abbott
Affymetrix
Agilent
Applied Gene Technologies
Arca
Beckman Coulter/Danaher
Becton Dickinson
Biokit
BioMerieux
BioRad
Biotest
Caliper
Cepheid
Decode
Diadexus
Eiken
Enzo
Exact Sciences
Fujirebio
GenProbe
Hologic
Illumina
Innogenetics/Solvay
Kreatech
LiCor Biosciences
Life Technologies
Monogram Biosciences
Myriad Genetics
Nanogen/Elitech
Novartis
Orchid CellMark

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