

# DNA and RNA Probes: Preparation, Formats, Labeling, Amplification, Detection

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## **Abstracts**

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This comprehensive review of the DNA and RNA probe technology includes modern principles of probe preparation, various test formats, labeling techniques, and numerous amplification methods.

Contains 60 pages



### **Contents**

- 1. BASIC PRINCIPLES
- 2. PROBE PREPARATION
- 3. DNA PROBE TEST
- a. Sample Preparation
- b. Hybridization
- c. Separation
- d. Detection/Measurement

#### 4. TEST FORMATS

- a. Filter Hybridization
- b. Southern Blot
- 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



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