



HybriDetect Colloidal Gold Test Strip User Manual

【Product Name】

Generic Name: HybriDetect Colloidal Gold Test Strip

【Packaging Specifications】

Product Code: EDN-HDZ01

Specification: 48 tests/box

【Overview of Principle】

This product utilizes a chromatographic double antibody sandwich method for rapid detection of nucleic acid amplification products.

【Product Features】

This product is simple to use, provides quick results, is safe and non-toxic, and requires no special equipment for operation.

【Primer Probe Design】

When designing the primer or probe, one primer/probe should be labeled with biotin (Biotin), and the other primer/probe with fluorescein isothiocyanate (FITC) or 6-carboxyfluorescein (6-FAM). Ensure that both labels can be simultaneously incorporated into the double-stranded amplification product.

【Packaging Specifications】

Component	Quantity
HybriDetect Test Strips	48 tests/box



Figure 1. HybriDetect Test Strip Structure Diagram

C: Control line T: Test line S: Sample application hole

【Kit Storage】

1. Transportation conditions: Room temperature;
2. Storage conditions: Store at 4°C-30°C, protected from light;
3. Product validity: 24 months;
4. Production date: Refer to outer packaging.

【Operating Procedure】

1. Take out the corresponding number of test strips based on the number of tests. You may label the cassette to distinguish the test groups. Each test strip is for single use only;
2. Dilute 5-10 μL of nucleic acid amplification product in a centrifuge tube with sterile ddH₂O at a 1:20 ratio, and mix well;
3. Add 50 μL of the diluted reaction product to the sample application hole, and record the result within 5 minutes;
4. After recording the result, seal and dispose of the test strip safely.

【Result Interpretation】



**1. Negative:**

One red line appears in the control region (C line), and no line appears in the test region (T line). A negative result indicates that the target nucleic acid is absent or below the detection limit of the test strip.

2. Positive:

Two red lines appear: one in the control region (C line) and one in the test region (T line). A positive result indicates the presence of the target nucleic acid fragment, and its concentration is equal to or greater than the detection limit of the test strip.

3. Invalid:

No lines appear in either the control region (C line) or the test region (T line). This result suggests that the test strip is invalid, damaged, or there was an error in the procedure. In such cases, carefully read the instructions and repeat the amplification and testing according to the guidelines. If the issue persists, discontinue the use of the batch and contact the supplier.

2. The colloidal gold test strip has high sensitivity, so take care to avoid nucleic acid contamination during the experiment.

3. Store the product in the appropriate environment and temperature as specified in the manual, and use it within the expiration date. After opening, use the test strips as soon as possible to avoid moisture exposure.

4. This product is for single use only. Do not reuse. Dispose of the used test strips in sealed bags for proper disposal.

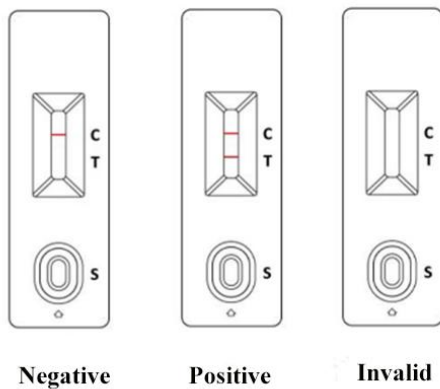


Figure 2. Schematic Representation of Result Interpretation

【Precautions and Safety Tips】

1. This product is for research use only. Please read the instruction manual carefully before use and follow the instructions strictly. Failure to comply may lead to inaccurate experimental results.

