



Lateral flow paper strip Instructions (indirect method for CRISPR SHERLOCK)

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Catalog Code: CS-FMBO-48
CS-FMBO-96

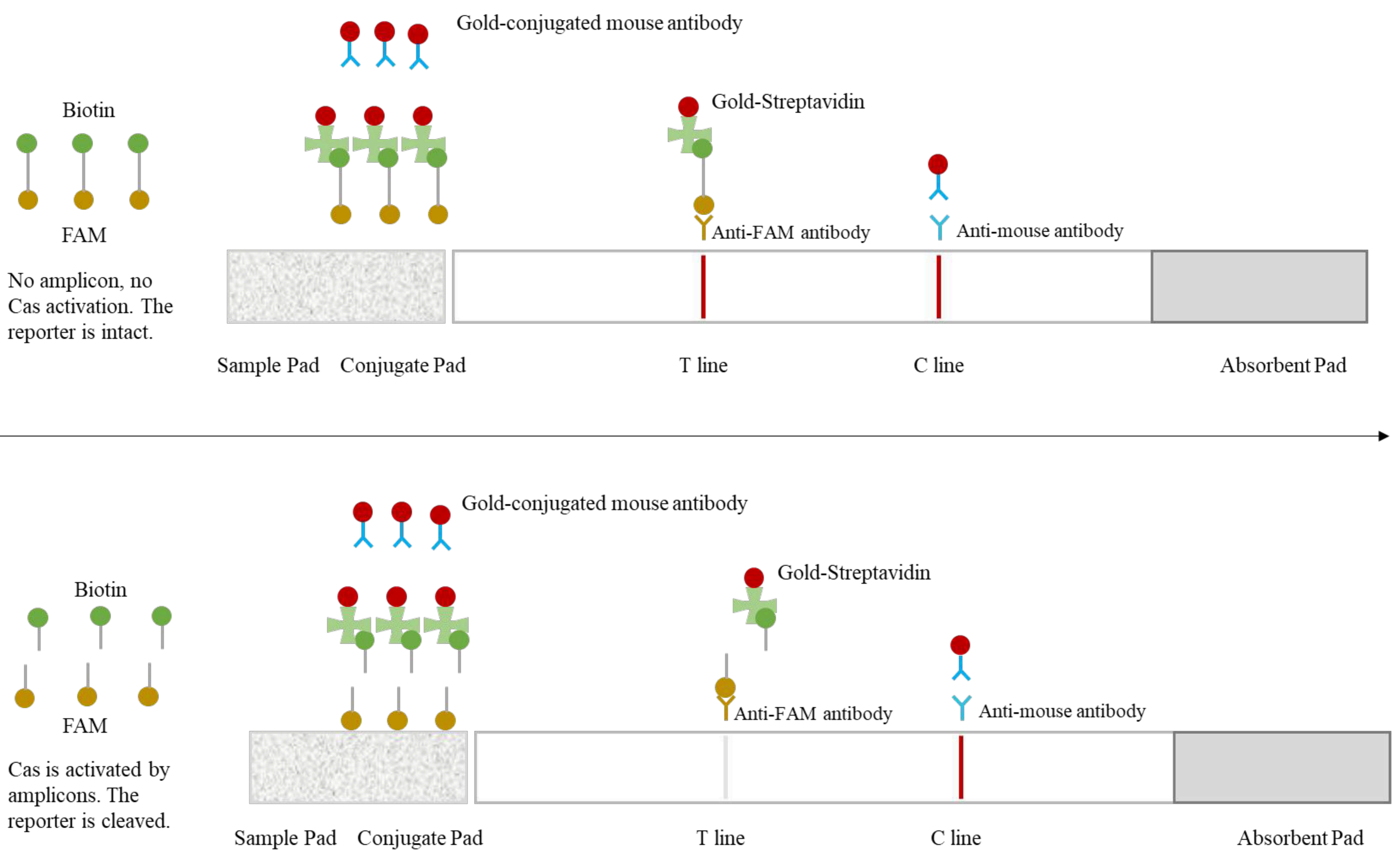
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Brief introduction

This product is based on the lateral flow technology using gold nanoparticles. It is able to give information about the status of reporter, a short single stranded DNA- or RNA-molecule with dual-label of Biotin & FAM or Biotin & FITC.

Successful target recognition of the CRISPR/Cas complex triggers collateral nuclease activity of the Cas Protein. Cas-dependent reporter cleavage leads to the separate of the FAM/FITC and Biotin labels. The paper strip is able to differentiate between intact and cleaved reporter. Recommend to use with EZassay™ products CRISPR-Cas12a DNA detection kit (Cat.#: D-L-CAS12-1S; D-L-CAS12-2S.)



Materials supplied

Item	CS-FMBO-48	CS-FMBO-96	Store
Lateral flow paper strip (without cassette)	48 tests	96 tests	Room temperature (15- 30°C). Do not freeze. Protected from moisture and direct sunlight.
Diluent buffer	5 mL	10 mL	2-8°C

Assay procedure

1. Take out paper strips as needed and label them.
2. Take 2 μ L CRISPR-Cas products and mix with 78 μ L diluent buffer*.
3. Transfer 70 μ L diluent product to sample pad with a pipette. Or simply insert strip into the liquid. (The liquid level should not exceed the MAX line.)
4. Read result in 5 minutes.

* Diluent factor needs to be optimized according to reporter concentrations.
Optimization diluent factor is 9 to 200.

Result

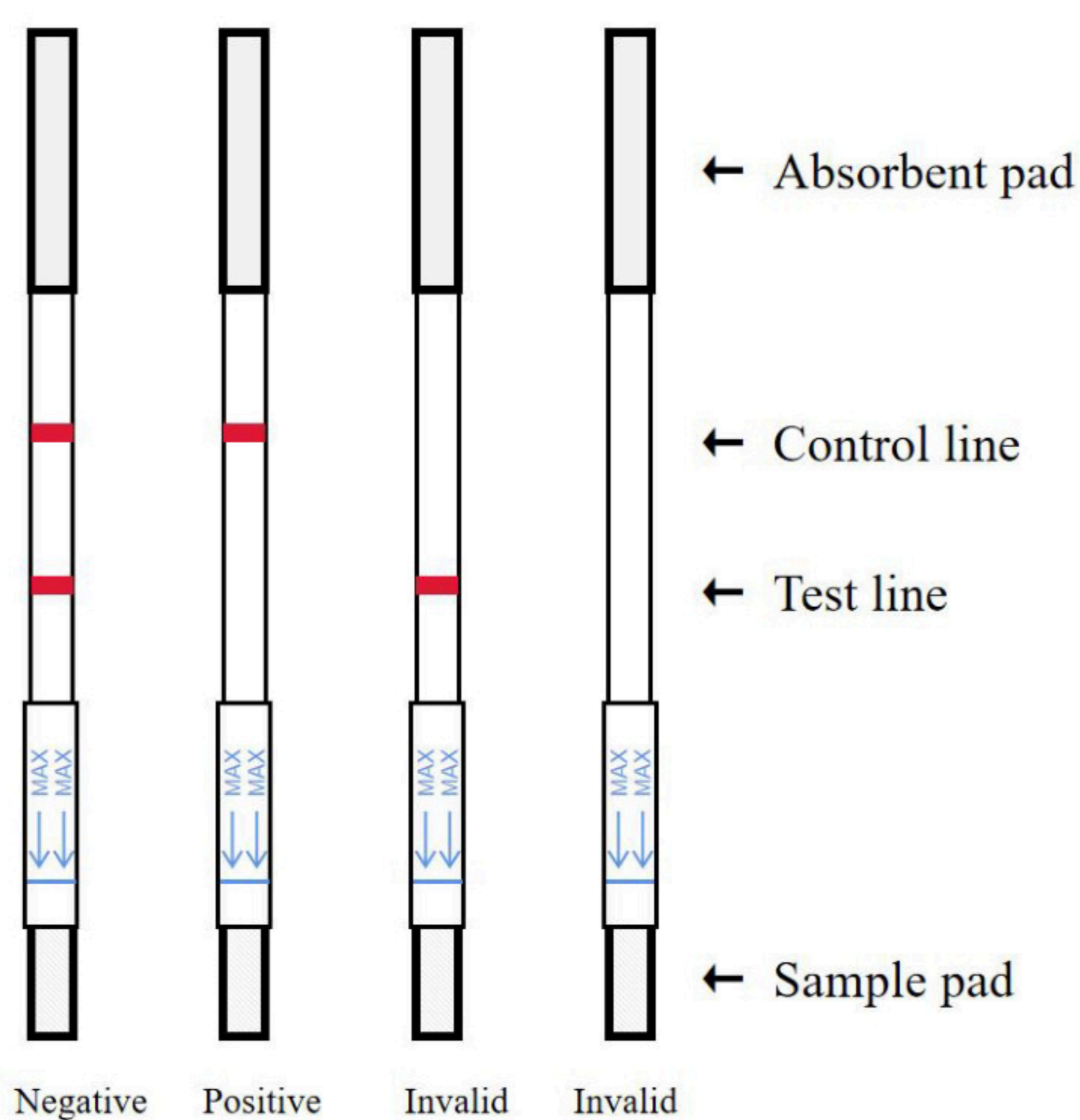


Figure 1: Schematic diagram of the interpretation of the results

- Positive: Cas protein is activated. The reporter is totally cleaved. No gold nanoparticles are accumulated at Test line.
- Negative: Cas protein is inactivated. The reporter is intact. Gold nanoparticles are accumulated at Test line.
- Invalid: No gold nanoparticles at Control line.

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