

Goat / sheep milk is considered as another source of protein for human consumption, which is regarded as high nutrition, low allergic. In some countries, producers added bovine milk into goat/sheep milk to increase the production and profit.

This test strip uses the specific antibody of bovine casein, which can only specifically bind to the casein in milk or milk powder, but does not react with the casein in sheep's milk or milk powder, so as to detect whether the sheep's milk or milk powder is mixed with milk or milk powder through competitive methods. This method has the characteristics of good specificity, high sensitivity, strong stability and strong anti-interference ability.

1. Scope of application

This product is suitable for qualitative detection of cow's milk adulteration in goat milk.

2. **Detection Limit (LOD):** 0.2%-0.3%

3. Kit components

- Test Strip, 96 pcs in 12 plastic bottles, 8 pcs / bottle.
- Reader (optional)
- Kit insert

4. Pre-processing of the sample

● Whole fat goat milk powder

Weigh 1g (accurate to 0.01 g) goat milk powder, pour into the centrifuge tube and add 8 mL of purified water to mix and use as sample for testing.

● Goat milk powder

Weigh 1g (accurate to 0.01 g) goat milk powder, pour into the centrifuge tube and add 8 mL of purified water to mix and use as sample for testing.

● Fresh goat milk

Directly used as the sample to be tested, following the operation steps.

- **Note: The sample to be tested must be a homogeneous liquid, without agglomeration, acidification and precipitation.**

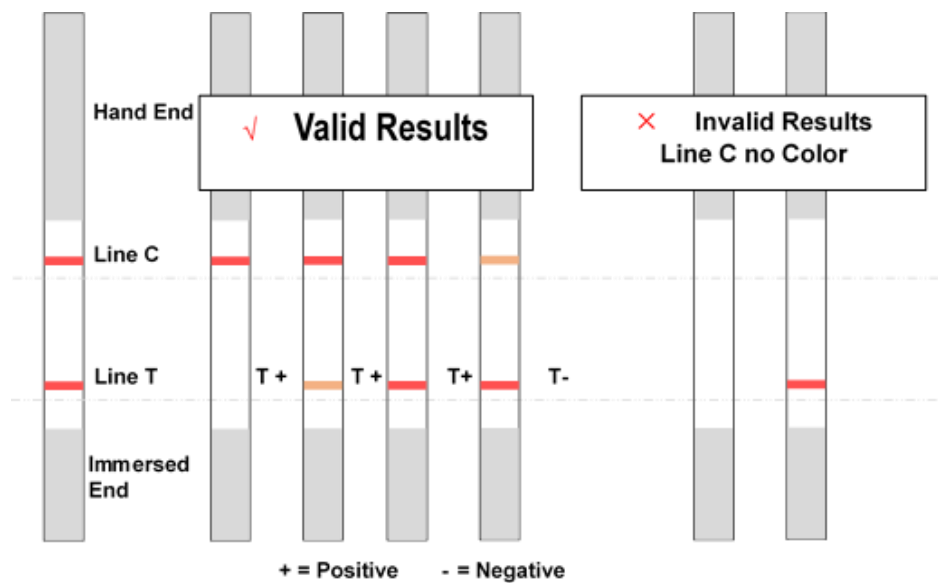
5. Operations

- Please read the operating instructions carefully before the experiment. Return the test strip and the sample to room temperature before use.
- Remove the reagent bucket from the original packaging, then open it, remove the required number of microwell reagents and test strips, and mark them. Please use it as soon as possible within 60min. Immediately after removing the test reagent, cover the reagent lid.
- 200 µl of the sample solution was absorbed then tested into the microwells with a micropipette, slowly aspirate and mix well with the reagents in the microwells.
- After **incubating for 3 min at room temperature**, insert the labeled test strip into the microwell, allow it to fully immerse into the solution.
- After incubating for **7 minutes at room temperature**, the test strip was taken out and judged according to the schematic diagram, and the other conditions was judged to be invalid.

6. Result Determination

- **Negative (-):** Both the Line C and Lines T are colored, and the color of Line T is **deeper than** the Line C, indicating that the concentration of cow milk in the sample is below the detection limit.
- **Positive (+):** Compare the color of Line T with Line C, if the color of Line T is **lighter than or Equal to** Line C, the result will be positive. If there is **no** Line T, the result is also positive.
- **Invalid:** Line C has no color. **In this case, the test will be invalid.**

- **Remarks:** In addition to the naked eye interpretation, you can also use a special reader to make the result interpretation.



7. Specificity

The results are all negative when test sulfonamides, fluoroquinolones, tetracyclines and aflatoxin M1 with the concentration of 500µg/kg.

8. Storage

2-8°C in cool dark place, do not freeze. The kit is valid for 12 months after manufacture date. Lot number and expired date are printed on the package.

9. Notice and Precautions for a successful experiment.

Please perform the assay following the instruction, do not touch the membrane of the strip.

Please seal the bottle after taking out required strips.

This strip is used for only once; please do not use it repeatedly.

This kit is only for screening test, positive result should be further confirmed with other method.

Ring Biotechnology Co., Ltd

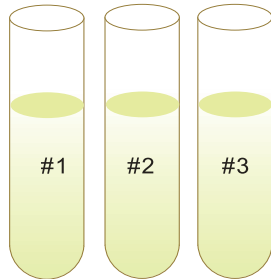
E-mail: export@ringbio.com diego@nbgen.com Web: www.ringbio.com

Add: Building 3, Zhongtongtai TechnoPark, No. 11, Kechuang 14th St, Beijing 100176, CHINA

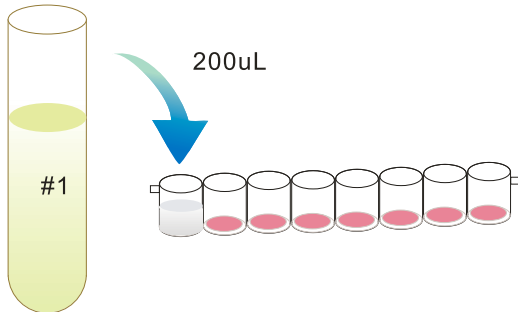
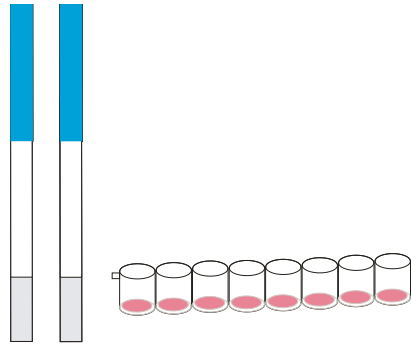
Tel: +86-10-56267496 Technical Support & Service: +86-18600362934

Schematic Assay Steps

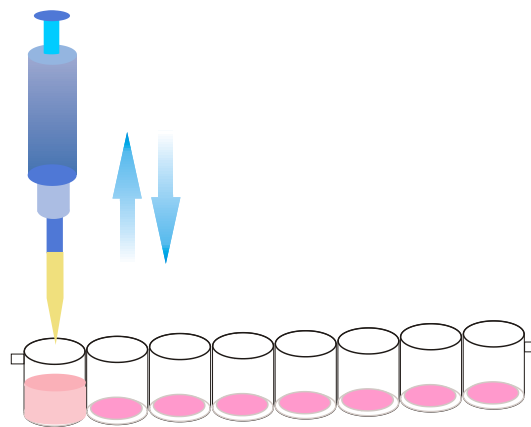
1. Bring all test samples to room temperature; number them to keep record.



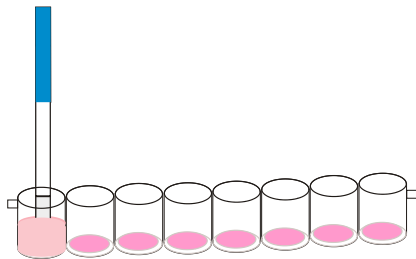
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.

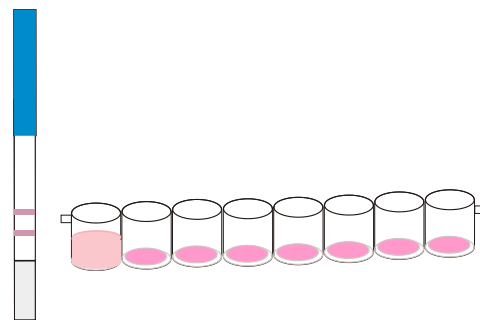


4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 3 min at room temperature.**



5. Insert the "Immersed" end of the strip into the mixture; **Incubate for 7 min at room temperature again.**

6. Take out the strip; judge the result according to **kit instruction.**



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