

MilkGuard Rapid test kit for Aflatoxin M1

1. Principle

This kit is based on the specific reaction of antibody-antigen and immunochromatography. Aflatoxin M1 in the sample competes for the antibody with the BSA-linked antigen coated on the membrane of the test strip. Then after a color reaction, the result can be observed.

2. Applications

This kit is used for rapid qualitative analysis of aflatoxin M1 in raw milk, Pasteurized milk or UHT milk.

3. Detection Limit (LOD): 0.5 µg/L(ppb)

4. Kit components

- 8 wells and 8 test strips in one bottle, 12 bottles/ kit.
- microwell holder
- Kit insert
- Plastic pipette, 96pcs

5. Operations

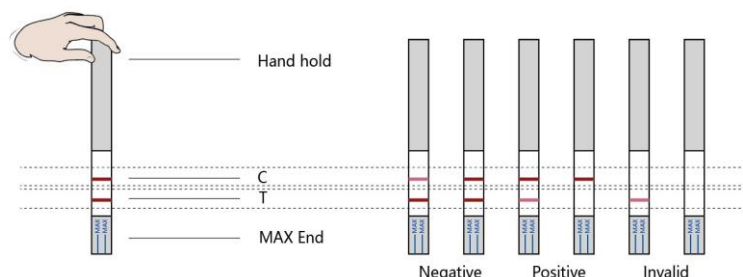
- (1) Read the instructions carefully before experiment. Bring the test kit and samples to room temperature. Milk samples should be fully liquid without any agglomeration and deposition.
- (2) Take bottles needed from the kit package, take out required wells and strips, and make proper marks. Please use these test strips within 1h. Seal the cap of the bottles.
- (3) Take 200ul of the test samples into the wells, then repeatedly absorb for 5 times, mix the sample with the reagent in the wells completely. The mixture should be pink, and then start the timer.
- (4) Incubate for 5min at room temperature(20~25°C), insert the test strips into the wells with the "MAX" end fully dipped in to the mixture.
- (5) Incubate for 5min at room temperature(20~25°C) again. Take out the strip; judge the result according to Part 6.

6. Result

Negative(-) : Line T and Line C are both red, and Line C is less stronger than Line T.

Positive(+) : Line C is red, Line C is stronger than Line T or Line C is the same color as Line T (aflatoxin M1 > 200ppt).

Invalid: Line C has no color, which indicates the strips are invalid. In this case, please read the instructions again, and redo the assay with new strip.



Note: *If the result of the strip needs to be recorded, please cut the foam cushion of the "MAX" end, and dry the strip, then keep it as file.*

7. Specificity

The kit shows negative with 500µg/L of sulfamethazine, norfloxacin, lincomycin, spectinomycin, gentamicin, streptomycins. And shows positive with 10µg/L of Aflatoxin G2, 2µg/L of Aflatoxin B1、B2、G1.

8. Storage

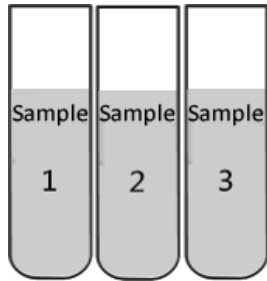
2-8°C in cool dark place, do not freeze. The kit will be valid in 12 months. The lot number and expired date are printed on the package.

9. Notice for operations

- (1) Please do the assay following the instruction, don not touch the membrane of the strip.

- (2) Please seal the bottle after taking out required strips.
- (3) This strip is used for only once; please do not use it repeatedly.
- (4) This kit is only for screening test, positive result should be further confirmed with other method.

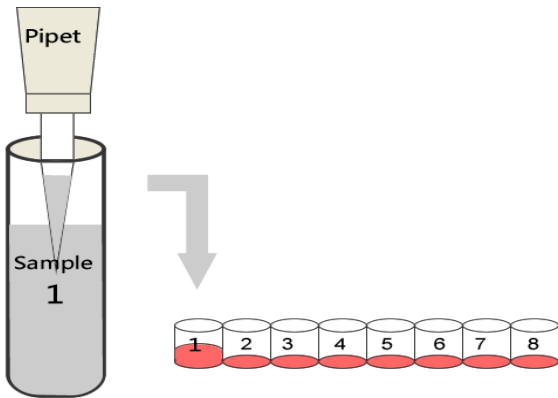
Assay Steps



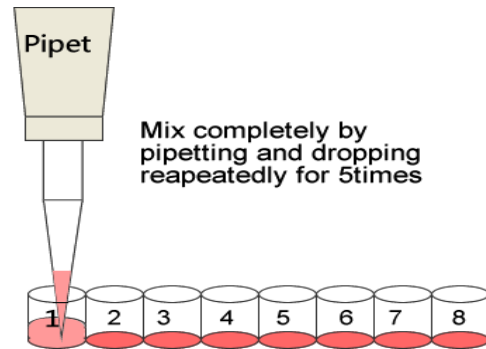
1. Prepare the test samples. Make proper marks, bring them to room temperature.



2. Take out required test wells, make proper marks.

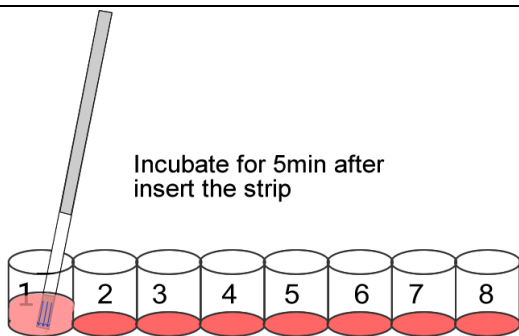


3. Take 200ul test sample into the wells,



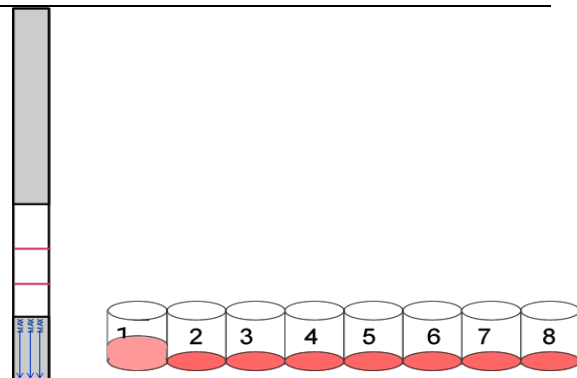
Mix completely by pipetting and dropping repeatedly for 5times

4. Use the tip to absorb the milk sample for 5 times to mix the sample and the reagent completely. Start the timer when the mixture is pink. Incubate for 5min at 20-25 °C (room temperature) .



Incubate for 5min after insert the strip

5. Insert the test strips into the wells with the "MAX" end fully dipped in to the mixture. Incubate for 5min at 20-25°C again.



6. Take out the strip; judge the result according to Part 6.