

MilkGuard Rapid test kit for Aflatoxin M1

1. Principle

This kit is based on the specific reaction of antibody-antigen and immunochromatography. Aflatoxin 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 milk sample.

3. Detection Limit (LOD): 0.5 ng/ml (ppb)

4. Kit components

- 8-well strip and 8 test strip in one bottle. 12 bottles / kit.
- Microwell holder
- Kit insert
- Plastic pipette, 100pcs

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

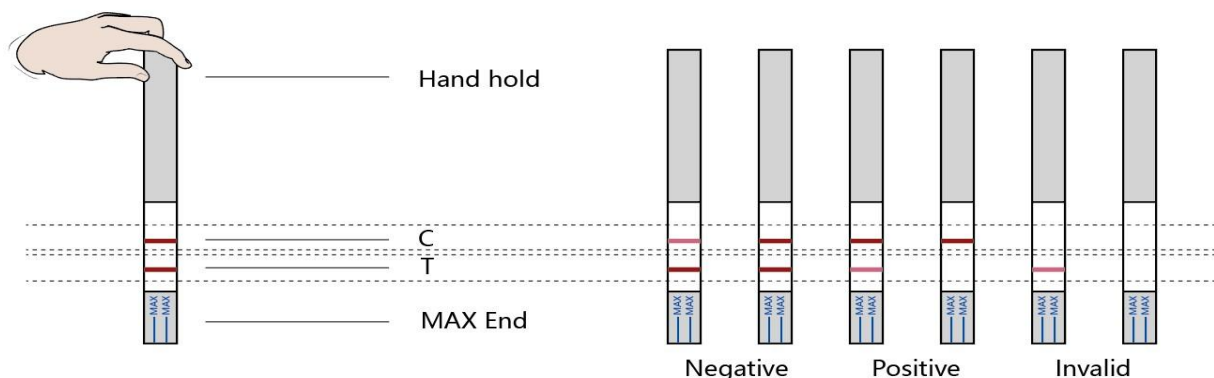
6. Result

Negative(-) : Line T and Line C are both red, and Line C is weaker than Line T or the same color as Line T.

Positive(+) : Line C is red, Line C is stronger than Line T or Line T is no color.

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

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This product shows **NEGATIVE** with 500µg/L level of sulfonamides, chloramphenicol, tetracyclines, aminoglycosides, fluoroquinolones.

This product shows **POSITIVE** with 10µg/L level of aflatoxin G2.

The product shows **POSITIVE** with 2µg/L level of aflatoxin B1, aflatoxin B2, Aflatoxin G1.

The kit has no cross reactions with beta-lactams, tetracyclines, melamine, sulfonamides, quinolones, macrolides and other drugs.

8. Storage

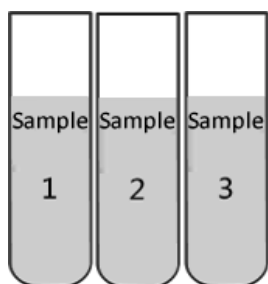
The kit can be stored at 2-8℃ in dark cool place for 12 months. Do not freeze

Lot Number and date of production 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.

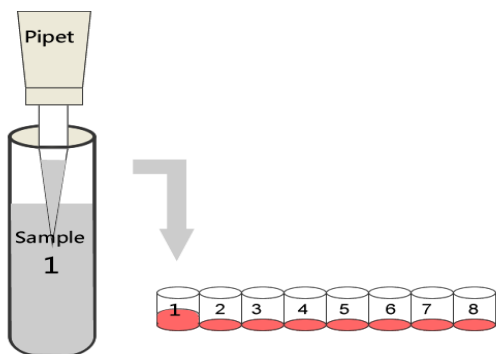
Assay Steps



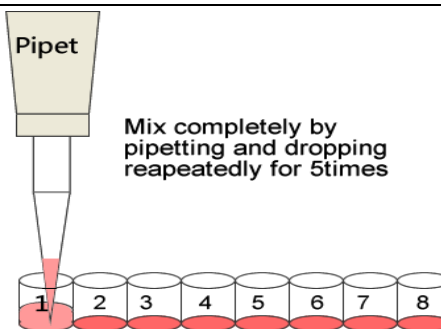
1. Prepare the test samples. Make proper marks, bring them to room temperature.



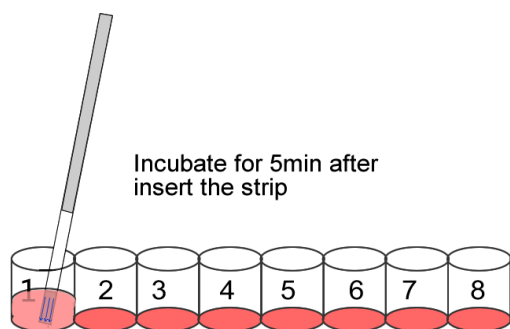
2. Take out required test wells, make proper marks.



3. Take 200ul test sample into the wells,



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 room temperature.



5. Insert the test strips into the wells with the "**MAX**" end fully dipped in to the mixture. Incubate for 5min at room temperature again.



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