

## Instructions for Use

Version: 1.0.1

Revision date: 14-Jan-25

### Aflatoxin M1 (AFM1) Rapid Test Kit

**Catalog No.:** abx092108

**Size:** 20 / 50 / 80 tests

**Storage:** Store all reagents at 2°C – 30°C. Keep dry.

**Application:** For qualitative detection of Aflatoxin M1 in milk.

**Detection limit:** 0.2 ppb (ng/ml)

#### Introduction and Assay Principle

Abbexa's Aflatoxin M1 (AFM1) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Aflatoxin M1 present in the samples combines with the colloidal gold particle-labelled Aflatoxin M1 antibody, which competes with the AFM1 conjugate on the cellulose membrane. When the concentration of Aflatoxin M1 in the sample is more than the detection limit, the detection line does not show any color (or shows a color lighter than the control line) and the result is positive. When the concentration of Aflatoxin M1 in the sample solution is less than the detection limit, there is a color change in the detection line (equal to or a darker color than the control line) and the result is negative.

#### Kit Components

- Test cassettes containing disposable pipettes
- Gold-labelled separate micro-well

#### Material Required But Not Provided

- High-precision pipette (20-200 µl) and sterile pipette tips
- Timer

#### A. Sample preparation

- **Milk:** If the sample is frozen or granular raw milk, centrifuge or heat it before use. Test the milk samples at a temperature of at least 25°C.

#### B. Assay procedure

1. Take a test cassette and lay it flat on a clean table. Using the pipette, slowly and vertically add 8 drops (approximately 200 µl) of milk sample to the gold-labelled micro well. Avoid foaming.
2. Stir the purple residue with a clean pipette tip until it has completely dissolved. Avoid foaming.
3. Wait 2 minutes, then transfer all of the liquid from the gold-labelled micro-well to the sample well in the test cassette.

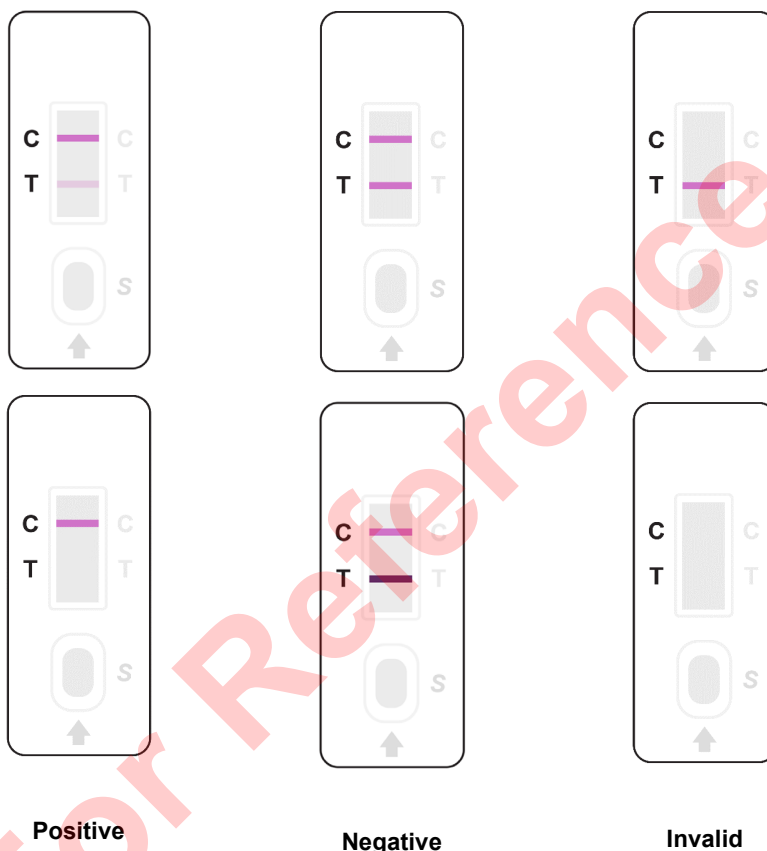
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- Leave at room temperature for 10 minutes, then analyze the result.

### C. Results analysis

- Positive result:** A colored line is observed in the control (C) section, and a line of a lighter color than the control line is observed in the test (T) section, or the test (T) section is colorless.
- Negative result:** A colored line is observed in the control (C) section, a line of an equal or darker color than the control line is observed in the test (T) section.
- Invalid result:** No colored line is observed in the control (C) section.



### Notes

- The test cassettes should be brought to room temperature before use.
- After opening the aluminum foil, use the test cassette as soon as possible.
- Samples should be clear with no visible particles, turbidity, or bacterial pollution.
- Do not mix or re-use the disposable pipettes to avoid cross-contamination.
- Do not use water, PBS, or similar solutions as the negative control.

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6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of Aflatoxin M1 in milk samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. This kit is for research use only and the results are for reference only.
9. All waste should be disposed of appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.

**Technical Support**

For troubleshooting and technical assistance, please contact us at [support@abbexa.com](mailto:support@abbexa.com).

For Reference Only