Aflatoxin M1 (AFM1) FQ Test Kit

Technical Manual

(GICA)

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1 Principle and Application

The test kit is used for the quantitative detection of Aflatoxin M1(AFM1) in the samples such as raw milk.

The kit is developed using a competitive fluorescence immunochromatography assay. After adding the sample to the gold-labeled well, the Aflatoxin B1 in the solution binds to the fluorescent microsphere-labeled antibodies, thereby preventing these antibodies from binding to the Aflatoxin B1 conjugate on the cellulose membrane. The quantitative test results are obtained through the fluorescence strip reader.

2 Technique Data

Detection range: 0.1-1 ppb (ppb=μg/Kg)

3 Kit Content

Package specification	20T/Kit
Test device (with gold-labeled well)	20
Instruction	1

4 Materials Required but Not Supplied

Timer, micropipettes: single-channel (20-200μL).

5 Test Steps

(1) Tear the foil pouch, take out of the test card and the gold-labeled well, and put on a flat, clean work surface.

(2) Allow the sample to return to room temperature. Before testing, mix the sample thoroughly. Transfer 100 μL of the sample into the gold-labeled well, and pipette up and down five times until the reagent is fully dissolved and mixed. Let the mixture stand at room temperature for 2 minutes. After that, pipette up and down five more times, then transfer the entire content of the well into the sample hole (“S”) of the test card. Allow the reaction to proceed at room temperature for 10 minutes.

(3) Insert the test card into the fluorescence strip reader to read the results, which will be automatically displayed on the reader screen.

6 Notice

6.1 Don’t use the expired or damaged products.

6.2 When the test card is taken out of the refrigerator, it should be restored to the room temperature and then opened. The opened test card should be used as soon as possible to avoid failure after being affected by moisture.

6.3 Avoid touching the white nitrocellulose membrane in the middle of the detection card.

6.4 The optimal storage condition for raw milk and similar samples is 2°C to 8°C, and the storage duration should not exceed 3 days. Before testing, the sample should be brought back to room temperature and thoroughly mixed.

6.5 Avoid using samples that have coagulated or exhibit abnormal sensory characteristics, as these may cause blockages or other issues that could affect the accuracy of the test results.

6.6 The batch number selected on the fluorescence strip reader must correspond with the product QR code; reagents from different batches should not be mixed.

7 Storage Conditions

The kit shall be stored at 2°C to 30°C (35.6°F to 86°F) in dry environment.

Shelf life: 12 months. The date of manufacture is presented in the label of the box.