# Aflatoxin M1 (AFM1) FQ Test Kit

Technical Manual

(GICA)

Scan for more info.

Shenzhen Finder Biotech Co.,Ltd.
Web: www.szfinder.com
Tel: +86 0755 23499025 Email: techsupport@szfinder.com
Add: Building B12,Life Science Industrial Park, KuiyongSubdistrict, Dapeng New Area, Shenzhen,China

## 1 Principle and Application

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

The kit is developed using a competitive fluorescence immunochromatography assay. After adding the sample to the microwell, the Aflatoxin M1 in the solution binds to the fluorescent microsphere-labeled antibodies, thereby preventing these antibodies from binding to the Aflatoxin M1 conjugate on the cellulose membrane. The quantitative test results are obtained through the fluorescence strip reader.

## 2 Technique Data

**Detection limit:** 50 ppt

**Detection range:** 50-500 ppt

## 3 Kit Content

| Package specification | 20T/Kit |
|---|---|
| Test device (with microwell) | 20 |
| Instruction | 1 |

## 4 Materials Required but Not Supplied

**Equipment:** Thermostatic incubator, timer, micropipettes: single-channel micropipette (20-200μL), compatible fluorescence strip reader ( FD400H, FD600H)

## 5 Preparation Before Testing

(1)Take out the test kit and the sample to be tested, and bring them to room temperature.

(2)Turn on the thermostatic incubator and set the temperature to 50°C.

(3)Turn on the fluorescence strip reader, click “Sample Test,” and scan the QR code on the test kit. If the “Item” and “SN (Serial No./Lot No.)” displayed on the device screen match the test kit label, the QR code has been scanned successfully.

## 6 Test Steps

(1)Tear the foil pouch, take out of the test card and the microwell, and mark properly.

(2)Place the microwell in the thermostatic incubator. Transfer 100 μL of the sample into the microwell, and pipette up and down five times until the reagent is fully dissolved and mixed. Close the incubator lid and incubate at 50°C for 2 minutes.

(3)Place the test card in the thermostatic incubator. Pipette the liquid in the microwell up and down 5 times, then transfer all of it into the sample hole (S) of the test card. Close the incubator lid and incubate at 50°C for 10 minutes.

(4)Insert the test card into the fluorescence strip reader, click “Start Test,” and the result will be automatically displayed on the screen.

## 7 Notice

7.1 Don’t use the expired or damaged products.

7.2 The test card is a single-use product. Do not reuse.

7.3 Pipette tips must not be used interchangeably to prevent cross-contamination.

7.4 The test cards, reagents, and QR codes from different batches shall not be mixed for use.

7.5 Use the test card as soon as possible after opening the aluminum foil pouch to avoid moisture damage and invalid results.

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

7.7 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.

7.8 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.

7.9 Solid and liquid wastes generated after the use of this product shall be disposed of in accordance with local regulatory requirements to avoid contamination.

## 8 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.