

**CM (Ceftiofur Metabolite) Lateral Flow Assay Kit**

Catalog No: E-FS-C114

20T/50T/80T

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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Website: [www.elabscience.com](http://www.elabscience.com)

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

## Test principle

This kit uses the principle of Immunochromatography assay for the qualitative detection. It can detect CM (Ceftiofur Metabolite) in milk samples. After adding the sample solution into the sample well of detection card, CM in the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with CM conjugate on the cellulose membrane. When the concentration of CM in the sample solution is more than the detection limit, the detect line do not show color (or shows lighter color than control line) and the result is positive. When the concentration of CM in the sample solution is less than the detection limit, the detect line shows color (shows equal or darker than the control line) and the result is negative.

## Technical indicator

**Detection limit:** Milk ---20 ppb

## Kits components

Item	Specifications
Detection card (with disposable dropper)	50 T/kit
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

## Other supplies required

**Instruments:** Centrifuge, Water bath, Graduated pipette, Balance (sensitivity 0.01g).

**High-precision transferpettor:** Single channel (20-200  $\mu$ L, 100-1000  $\mu$ L).

## Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date or in a broken aluminum foil.
2. The detection card should be adjusted to room temperature after removed from the refrigerator before opening. The opening detection card should be used as soon as possible so as not to be invalid because of moisture.
3. Avoid of contacting the white membrane at the middle of the sample well.
4. The disposable dropper cannot be mixing to avoid the cross-contaminant.
5. The tested sample should be clear, no turbidity particle and no bacterial pollution, otherwise it is easy to result in abnormal phenomena such as obstruction, unobvious color, etc, which affect the judgment of the experiment result.
6. If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.
7. **Each reagent is optimized for use in the E-FS-C114. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C114 with different lot numbers.**
8. The kit is used for rapid screening of actual samples. If the test result is positive, the instrument method such as HPLC, LC/MS, etc. can be used for quantitative confirmation.

## Storage and expiry date

**Storage:** Store at 2-30°C. With cool and dry environment.

**Expiry date:** expiration date is on the packing box.

## Sample pretreatment

Restore all reagents and samples to room temperature before use.

### 1. Sample pretreatment Notice:

Experimental apparatus should be clean, and the disposable dropper should be disposable to avoid the experiment result be interfered by the contamination.

### 2. Sample pretreatment

*The sample must be fresh and free of contamination and no deterioration.*

#### 2.1 Pretreatment of milk sample:

- (1) Take a little amount of fresh raw milk/milk (fat milk) sample into EP tube, centrifuge at 4000 r/min for 5 min.
- (2) Add the milk sample solution which is only at the middle of the EP tube into the sample well (If no centrifuge is available, oscillate the sample and take 4-5 drops of the intermediate layer sample directly into the sample well).

**Note: Detection limit: 20 ppb**

## Experiment procedure

1. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
2. Take the prepared sample with the matching with disposable dropper, add 6 drops (about 150  $\mu\text{L}$ ) of sample to the sample well (S) vertically and slowly (Avoid foaming)
3. Incubate for 10 to 15 minutes and then judge the results immediately.

## Judgment of result

1. **Negative:** The control line region (C) show color, the test line region (T) shows equal or darker than line C. It indicates the content of CM in the sample is lower than detection limit or the sample doesn't contain CM.
2. **Positive:** The control line region (C) show color, the test line region (T) shows no color or lighter color than line C. It indicates the content of CM in the sample is higher than detection limit.
3. **Invalid:** The control line region (C) show no color. It indicates operation process is wrong or the test card is invalid.

