MEL (Melamine) Lateral Flow Assay Kit

Catalog No: E-FS-C009

20T/50T/80T

Version Number:	V1.2
Replace version:	V1.1
Revision Date:	2024.03.14

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
Email: techsupport@elabscience.com
Website: 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 Melamine (MEL) in raw milk and milk sample. After adding the sample solution into the sample well of detection card, MEL of the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with MEL conjugate on the cellulose membrane. When the concentration of MEL in the sample solution is more than the detection limit, the detect line do not show color and the result is positive. When the concentration of MEL in the sample solution is less than the detection limit, the detect line show color and the result is negative.

Technical indicator

Detection limit: Raw milk, Milk---500 ppb.

Kits components

Item	Specifications
Detection Card (with disposable dropper)	20/50/80 T/kit
Manual	1 copy

Other materials required but not supplied

Instruments: Centrifuge, Graduated pipette

High-precision transferpettor: Single channel (20-200 μL)

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 Do not use product out of date or in a broken aluminum foil.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. 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.
8. **Each reagent is optimized for use in the E-FS-C009. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C009 with different lot numbers.**

Storage and expiry date

Storage: Store at 2-30℃. 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 procedure:**
   The sample must be fresh and free of contamination and no deterioration.

2.1 Take a little amount of fresh raw milk/milk (fat milk) sample into centrifuge tube, centrifuge at 4000 r/min for 5 min. Add the milk sample solution which is only at the middle of the centrifuge 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: 500 ppb

2.2 If the sample does not penetrate the C line, just dilute the sample with deionized water (sample: deionized water =1:1, V/V), and then add 4-5 drops of the sample into the sample well directly.

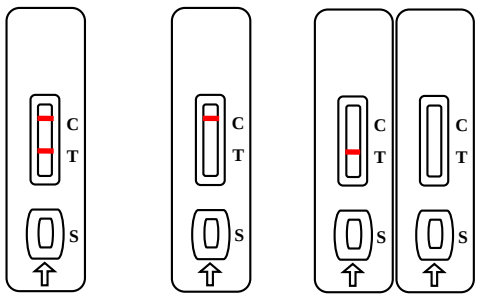
Note: Detection limit: 1000 ppb

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 liquid with the matching disposable dropper, add 4-5 drops (about 120 μL) of sample to the sample well (S) vertically and slowly (Avoid foaming).
3. Incubate for 5 to 8 minutes and then judge the results immediately.

Judgment of result

1. **Negative:** The control line region (C) and the test line region (T) both show a line. It indicates the content of MEL in the sample is lower than detection limit or the sample doesn't contain MEL.
2. **Positive:** Only the control line region (C) show a line. It indicates the content of MEL in the sample is higher than detection limit.
3. **Invalid:** The control line region (C) does not show a line. It indicates operation process is wrong or the test card is invalid.



Negative Positive Invalid