Elabscience®

（**FOR RESEARCH USE ONLY. DO NOT USE IT IN CLINICAL DIAGNOSIS !**）

MEL(Melamine) Assay Kit

Catalog No: E-FS-C009

50T

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.

Phone: 240-252-7368(USA)240-252-7376(USA)

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 competitive-inhibition-GICA. It can detect MEL (Melamine) in raw milk and milk sample. After adding the sample solution into the sample well of detect 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 reactionand the result is positive. When the concentration of MEL in the sample solution is less than the detection limit, the detect line shows purpleand the result is negative.

Technical indicator

Sensitivity:500 ppb (ng/mL）

Note: The final detection limit of sample equal to the result of sensitivity multiply by dilution ratio of sample pretreatment.

Detection limit: Raw milk/milk---500 ppb.

Kits components

Item	Specifications
Detect card	50 T/kit
Manual	1 copy

Other supplies required

Instruments: Centrifuge, Graduated pipette

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

Reagent: None.

Sample pretreatment procedure:

(1) Take a little amount of fresh milk(fat milk) sample into EP tube, centrifuge at 4000 r/min for 5 min.Add themilk sample solution which is only at the middle of the EP tube into the sample well.

(2) Oscillate the fresh milk well and add 4-5 drops of milk at the middle layer into the sample well directly if no centrifuge is available. If the separation in the TLC is not well as expected, just dilute the milk sample with purified water(milk: purified water=1:1, V/V), and then add 4-5 drops of the mixture into the sample well directly.

Experiment procedure

1. Tear the aluminum foil bag of the detect card and take out the detect card, and put it on a smooth, clean table.

2. Take the prepared clear sample supernatant with the matching straw, add 4-5 drops (about 150uL) of sample to the sample well (S) vertically and slowly.

3. Keep the detect card at room temperature for 5-8min, then judge the result. The result was invalid if lasts for more than 30 min.

Judgment of result

Negative: the control line region (C) and the test line region (T) both show purple. .

Positive: the control line region (C) shows purple, the test line region (T) shows no color.

Invalid: the control line region (C) shows no color.
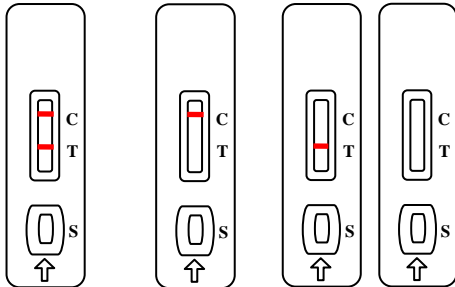
Negative Positive Invalid

Notes

1. Do not use product out of date or in a broken aluminum foil.
2. The detect card should be adjusted to room temperature after removed from the refrigerator before opening. The opening detect card should be used as soon as possible so as not to be invalid because of moisture.
3. Avoid of contacting the whitemembrane at the middle of the sample well.
4. The droplets 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.

Storage and valid period

Storage: Store at 2-30℃ withdry condition.

Valid Period: 1 year, production date is on the packing box.