

Melamine Rapid Test Card (Feed)

Catalog No. LT30002AYSL

1. Introduction

This test card is a highly sensitive and easy to operate immunochromatographic system to detect melamine residue in feed. The whole test procedure takes 10 -15 minutes.

2. Detection limit:

Feed: 500 ng/ml (500ppb)

3. Principle

The melamine rapid test card is based on the principle of competitive inhibition immunochromatography. When the sample solution is dripped into the sample hole, the melamine in the sample solution binds to the gold-labeled antibody, thereby blocking the antigen-binding site of melamine on the gold-labeled antibody. It prevents the binding of gold-labeled antibody with melamine protein conjugate on the cellulose membrane.

When the content of melamine in the sample is higher than the detection limit, there is no red band on the detection line (T line), and the result is positive; on the contrary, when there is no melamine in the sample or the content is below the detection limit, there is a red band on the detection line (T line) and the result is negative.

4. Contents (50 tests/kit)

- | | |
|-----------------------------|-------------|
| 1) Test cassette | 50 pieces |
| 2) Manual | 1 piece |
| 3) Dropper | 50 pieces |
| 4) Desiccant | 1 piece/bag |
| 5) Sample Extracting Buffer | 5 bottles |



Sample Collect Region

5. Materials required but not provided

- 1) **Equipment:** Balance, micro-pipettes (optional), vortex device (optional),
- 2) **Consumables:** 10ml/15ml/50ml centrifuge tubes, graduated pipettes, Disposable tips (optional)

6. Sample preparation

Feed

Weigh $1g \pm 0.05$ g grinded feed sample into 10ml/15ml/50ml centrifuge tubes, add 5ml Sample Extracting Buffer, shake violently for about 2 min, put aside for 5~10 min. Take the supernatant for testing.

7. Procedure

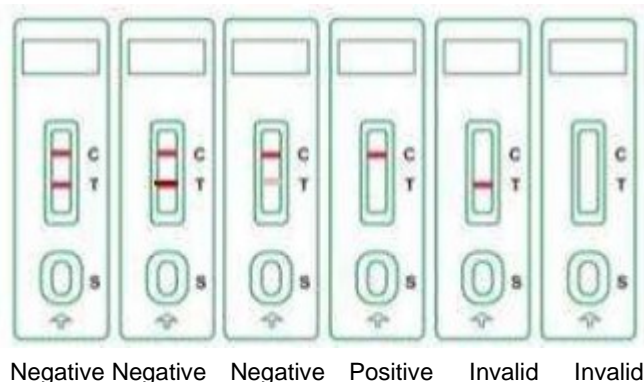
- 1) Take out the sealed Test Card and bring it to room temperature. (The card should be used within one hour of opening it.)

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- 2) Put the test card on a flat surface, use dropper to take the sample. Drip 3~4 drops (about 100µL) in the sample collect region.
- 3) Wait for 3~5 min for the reaction to take place. Read the result. The result is valid for 10 min.

8. Test Result Interpretation

- 1) **Negative (Melamine < 500ppb):** Both C line and T line is visible; it means there is no melamine residue or the residue is lower than 500ppb.
- 2) **Positive (Melamine > 500ppb):** T line is invisible and only C line is visible; it means the melamine residue is higher than 500ppb.
- 3) **Invalid test:** If C line does not show which means the test cassette is out of efficacy, out of date or improper operation. Please run the test again using another package.



9. Specificity

This product has no cross-reaction with streptomycin, tetracycline, sulfonamides, quinolones and other types of drugs.

10. Precautions

- 1) The test card can be used only once at room temperature, do not use expired test card.
- 2) Each test cassette and dropper is for single use only.
- 3) Do not touch the white membrane surface in the middle of test card. Avoid sunlight and fan blowing directly onto it.
- 4) Tap water, distilled water or deionized water cannot be taken as negative control sample.
- 6) Because of sample difference, some test line may appear light or grey color, but only if the red color appears, it can be inferred as Negative.

11. Storage and Expiry Date

Storage: Store at 4-30°C in dark, sealed, dry place. Do not freeze.

Expiry date: 12 months; date of production is on box.