

OTC (Oxytetracycline) Lateral Flow Assay Kit

Catalog No: E-FS-C115

20T/40T/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.

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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 OTC (Oxytetracycline) in muscle. After adding the sample solution into the sample well of detection card, OTC in the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with OTC conjugate on the cellulose membrane. When the concentration of OTC 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 OTC 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: Muscle, Liver---20 ppb.

Kits components

Item	Specifications
Detection Card (with disposable dropper)	40 T/kit
Reconstitution Buffer	4 vial
Manual	1 copy

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

Other supplies required

Instruments: Homogenizer, Centrifuge, Graduated pipette, Balance (sensibility 0.01g), Oscillator, Water bath.

High-precision transferpettor: Single channel (20-200 μ L, 100-1000 μ L).

Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date or in a broken aluminum foil.
2. Bring detection card to room temperature before opening the aluminum foil. 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 and unobvious color 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-C115. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C115 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.

Lean meat, liver, lung and kidney samples should be tested immediately or collected in plastic bags for testing. If the samples cannot be detected in time, they can be stored for 24 hours at 2-8 °C. It is recommended to use unfrozen muscle samples for pre-treatment experiments.

2. Pretreatment of muscle (livestock, fish, shrimp, crab), Liver sample:

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

- (1) Remove the skin and fat of fresh sample, homogenize with homogenizer.
- (2) **Shrimp:** The shrimp sample should be bathed in water bath at 80℃ for 5 minutes before proceeding to the next step 3)
- Other:** Please go to the third step 3.
- (3) Weigh 4 ± 0.05 g of homogenate sample into a 15 mL centrifuge tube.
- (4) Then add 2 mL of **Reconstitution Buffer**. Oscillate for 5 min and mix fully, centrifuge at 4000 rpm for 5 min.
- (5) Take the supernatant for analysis.

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 disposable dropper, add 5 drops (about 120 μ L) of sample to the gold-labelled micro well, whip the red residual with a disposable dropper until it is completely dissolved (Avoid foaming), wait for 2 min, remove all the liquid of the gold-labelled micro well into the sample well (S), count down at the same time.
3. Incubate for 5 to 8 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 OTC in the sample is lower than detection limit or the sample doesn't contain OTC.
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 OTC 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.

