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RAC(Ractopamine) Lateral Flow Rapid Test Kit

Cat# LF1002

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

PRINCIPLE of KIT

This kit uses the principle of Immunochromatography assay. It can detect Ractopamine (RAC) in samples, such as muscle etc. After adding the sample solution into the sample well of detection card, RAC of the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with RAC conjugate on the cellulose membrane. When the concentration of RAC 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 RAC in the sample solution is less than the detection limit, the detect line show color (shows equal or darker color than control line) and the result is negative.

SPECIFICATION

Detection limit: Muscle --- 3 ppb

COMPOTENTS

Item	Specification
Detection card (with pipette)	50 T/kit
Manual	1 сору

Other materials required but not supplied

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

SAMPLE PRETREATMENT

Restore all reagents and samples to room temperature before use.

1. Sample pretreatment Notice:

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

2. Sample pretreatment procedure:

2.1 Pretreatment of muscle (livestock) sample:

- (1) Weigh 4.0 \pm 0.05 g of homogenized fresh sample into a 50 mL centrifuge tube.
- (2) Incubate the tube in boiling water bath ($90^{\sim}100^{\circ}$ C) for 10 min. Stand the tube for 10 min to make it cool, then take the supernatant for detection.



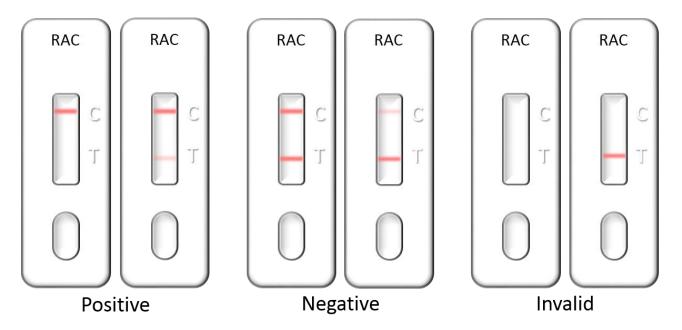
Note: Detection limit: 3 ppb

EXPERIMENT PROCEDURE

- 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 clear sample supernatant with the matching pipette, add 4 drops (about 120 μ L) of sample to the sample well (S) vertically and slowly (Avoid foaming).
- 3. Incubate for 5 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 RAC in the sample is lower than detection limit or the sample doesn't contain RAC.
- 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 RAC 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.



NOTES

- 1. 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 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.
- 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 LF1002. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other LF1002 with different lot numbers.

PRODUCT USE LIMITATION

These products are intended for research use only.

