

Halal Food Pork Lateral Flow Assay Kit

Catalog No: E-FS-C143

20T

Version Number:	V1.1
Replace version:	V1.0
Revision Date:	2025.09.22

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 a double antibody sandwich immunochromatographic principle for the qualitative detection of porcine-derived material in samples. The sample solution is added to the sample well of the detection card. Any porcine-derived material present in the sample binds to gold-labeled antibodies specific to porcine antigens. This complex then migrates along the strip and is captured by a second immobilized anti-porcine antibody at the test line (T), forming a visible colored line. The appearance of a colored line at the control line (C) confirms the test has functioned correctly. A positive result is indicated when colored lines appear at both the test line (T) and the control line (C).

Kits components

Item	Specifications
Detection card	20 T/kit
Extraction Buffer	20 vials
Swab	20 pieces
Dropper	20 pieces
Manual	1 copy

Other materials required but not supplied

Instruments: Homogenizer, Oscillators, Centrifuge, Graduated pipette, Balance (sensitivity 0.01).

High-precision transferpettor: Single channel (20-200 µL, 100-1000 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 Do not use product out of date or in a broken aluminum foil.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-C143. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C143 with different lot numbers.

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.

2. Sample pretreatment procedure:**2.1 Sample pretreatment of Liquid (on the surface of meat) sample:**

- (1) Use a cotton swab to draw tissue fluid from the surface of the sample to be tested, then soak the cotton swab in the **Extractant** for 10 s, and then stir thoroughly to mix for 10 to 20 s. Dissolve the sample in the **Extractant** as much as possible.
- (2) Take out the cotton swab, and the resulting solution is the one to be tested.

2.2 Sample pretreatment of Muscle sample:

- (1) Weigh 0.1 ± 0.05 g of sample into **Extraction Buffer**, soak for 10 s. Then, use a swab to squeeze the meat pieces 5 to 6 times and stir thoroughly for 10 to 20 s.
- (2) Take out the swab, and the solution could be tested.

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 clear sample liquid with the matching disposable dropper, add 100 μ L (approximately 3 drops) of sample to the sample well (S) vertically and slowly (Avoid foaming).
3. Incubate for 5 to 10 min and then judge the results immediately.

Judgment of result

1. **Negative:** Only the control line region (C) show a line in the observation well.
2. **Positive:** The control line region (C) and the test line region (T) both show a line in the observation well.
3. **Invalid:** The control line region (C) shows no color. It indicates operation process is wrong or the test card is invalid.

