PLFX (Pefloxacin) Lateral Flow Assay Kit

Catalog No: E-FS-C134

20T/40T/80T

Version Number:	V1.3
Replace version:	V1.2
Revision Date:	2026.05.26

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.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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 Immunochromatography assay for the qualitative detection. It can detect PLFX (Pefloxacin) in samples, such as tissue. After adding the sample solution into the sample well of detection card, PLFX of the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with PLFX conjugate on the cellulose membrane. When the concentration of PLFX in the sample solution is more than the detection limit, the detect line do not show color reaction and the result is positive. When the concentration of PLFX in the sample solution is less than the detection limit, the detect line shows color and the result is negative.

Technical indicator

Detection limit: Tissue, aquatic products--- 2ppb.

Kits components

Item	Specifications
Detection Card	40 T/kit
Gold-labelled micro well	40 wells
Reagent A	4 vials
Reagent B	40 tubes
Reagent C	4 vials
Reconstitution Buffer	4 vials
Manual	1 copy

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

Other materials required but not supplied

Instruments: Homogenizer, Centrifuge, Oscillators, Graduated pipette, Balance (sensibility 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 Do not use product out of date or in a broken aluminum foil.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. **Each reagent is optimized for use in the E-FS-C134. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C134 with different lot number**
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.

Storage and expiry date

Storage: Store at 2-30℃. 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 of tissue (pork, beef, mutton, chicken, duck), aquatic products (fish, shrimp) sample:

(1) Remove the skin and fat of sample, homogenize with homogenizer.

(2) Weigh 3±0.05 g of homogenate sample into 15 mL centrifuge tube.

(3) Add 0.5 mL of **Reagent A** and 1 tube of **Reagent B** into the above centrifuge tube, then add 4 mL of **Reagent C**. Vortex vigorously for 2 minutes, followed by centrifugation at 4000 g at room temperature for 5 minutes

(4) Take 1.5 mL of supernatant into 5 mL centrifuge tube, evaporate to dryness under a gentle stream of nitrogen gas at 60℃.

(5) Add 0.3 mL of **Reconstitution Buffer** to the dried tube. Vortex to mix for 30 s.

(6) Take the liquid for analysis.

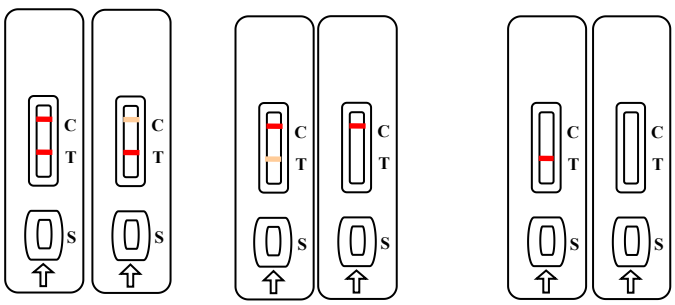
Note: Detection limit: 2 ppb

Experiment procedure

1. Tear the aluminum foil bag of the detection card and take out the detection card, gold-labelled micro well, dropper and put it on a smooth, clean table.
2. Take 120 μL (about 4 droppers) sample into the **Gold-labelled micro well**. Gently blow and aspirate 30 s to completely dissolve the purple-red particles at the bottom of the well (Note: Operate gently to avoid generating bubbles). Let it stand and wait for the reaction for 3 min.
3. Then gently pipetting up and down for 10 s, aspirate the red solution from the gold-labeled micro-well and completely dispense it into the sample well (S) of the detection card.
4. Allow it to react at room temperature for 5-8 min before interpreting the results.

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 PLFX in the sample is lower than detection limit or the sample doesn't contain PLFX.
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 PLFX in the sample is higher than detection limit.
3. **Invalid:** The control line region (C) shows no color. It indicates operation process is wrong or the test card is invalid.



Negative Positive Invalid