

**CBF(Carbofuran) Lateral Flow Assay Kit**

Catalog No: E-FS-C166

20T

**Version Number:** V1.0  
**Replace version:** /  
**Revision Date:** 2026.04.09

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 product is used for the rapid detection of Carbofuran pesticide residues in tea, featuring simple operation and short detection time.

**Technical indicator**

**Detection limit:** Tea (Fresh tea leaves, dried tea leaves)---0.02 mg/kg (ppm).

**Kits components**

<b>Item</b>	<b>Specifications</b>
Detection Card	20 T/kit
Disposable Dropper	1 packet
Diluent	2 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, Nitrogen Evaporators, Water bath, Centrifuge, Graduated pipette, Balance (sensitivity 0.01g), Oscillators, EP tubes.

**Micropipette:** Single channel (20-200  $\mu$ L, 100-1000  $\mu$ L)

## 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 Do not use product out of date or in a broken aluminum foil.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. This test card is for single use only, do not reuse.
3. Avoid of contacting the whitemembrane at the middle of the sample well. Avoid direct sunlight and direct fan blowing during testing. Knives used for sample preparation must be cleaned before use to prevent cross-contamination.
4. The disposable dropper cannot be mixing to avoid the cross-contaminant.
5. Do not use water or other liquids as a negative control for detection.
6. 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. Use the sample within 30 min after preparation, if the time is too long, reprocess the sample before testing. Too much or too little sample volume will affect the color development. Please strictly follow the instructions.
7. **Each reagent is optimized for use in the E-FS-C166. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-FS-C166 with different lot numbers.**
8. The reagents involved in this product are safe and reliable, and do not contain carcinogenic, highly toxic, flammable, explosive, or highly corrosive reagents.
9. 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.

## 2. Sample pretreatment procedure:

### 2.1 Pretreatment of tea (fresh tea leaves, dried tea leaves) sample:

- (1) Grind the sample and mix well.
- (2) Weigh  $0.5 \pm 0.05$  g of sample into 50 mL centrifuge tube, add 5 mL of **Diluent**, seal the bottle tightly with the stopper, oscillate vigorously for 2 min in centrifuge tube.
- (3) Let stand for 2 min.
- (4) Take 100  $\mu$ L of the liquid for analysis.

**Note: Detection limit: 0.02 mg/kg (ppm)**

## 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 liquid with the matching disposable dropper, add 100  $\mu$ L (about 3 drops) of sample to the sample well (S) vertically and slowly (Avoid foaming).
3. Start timing after sample addition, incubate for 5 to 8 minutes and then judge the results immediately. Results read at other times are invalid.

## 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 CBF in the sample is lower than detection limit or the sample doesn't contain CBF.
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 CBF 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.

