

# Beijing Kwinbon Biotechnology Co.,Ltd

## Test card for isoprocarb residue detection

### 1. Conspectus

Isoprocarb is a touch-and-kill, quick-acting pesticide, which is a highly toxic pesticide. It is mainly used to control rice planthopper, rice cicada and other pests on rice, some fruit trees and crops. Toxic for bees and fish.

### 2. Test Principle

This kit is based on competitive immunochromatography. The isoprocarb in the sample was extracted and bound to the colloidal gold-labeled specific antibody, which inhibited the binding of the antibody to the antigen on the detection line (T line) in the test strip, thus resulting in the change in the color of the detection line. Comparison of color depth between detection line and control line (C line) was provided for qualitative determination of samples of isoprocarb poisoning.

### 3. Applications

This kit is suitable for qualitative detection of residual isoprocarb in fresh cucumber sample.

Note: The type of test sample shall refer to China standard GB2763-2019.

### 4. Detection limit :0.5mg/kg

### 5. Testing time:15min (Including sample pretreatment and testing time.)

### 6. Product Components

- Isoprocarb residue test cards -----10pcs
- Extracting solution -----2× 50 mL/bottle
- Disposable straws -----10pcs
- User manual -----1pcs

### 7. Equipments & Consumables

- Balance(sensible weight: 0.01g)
- Polystyrene centrifuge tube(15mL)
- Colloidal gold analyzer (optional)

### 8. Sample preparations

(1) Before testing, the samples should be restored to room temperature (20-30 °C).

Fresh samples should be taken to wipe away the soil and cut into pieces less than 1 cm square.

(2) Weigh 1.00± 0.05g sample into 15mL polystyrene centrifuge tube, then add 8mL extract, close the lid, oscillate up and down manually for 30s, and let it stand for 1 min. Supernatant liquid is the sample to be tested.

Note: The sampling method refers to the food safety sampling inspection administration measures (aqsiq decree no. 15 of 2019). GB2763-2019 for reference.

### 9. Test process

(1) Please read the instruction carefully before the experiment. Restore the strip and sample to room temperature (20 ~ 30°C) before use.

(2) Take out the strip of test paper from the original packaging bag and open it and use it as soon as possible within 60 minutes.

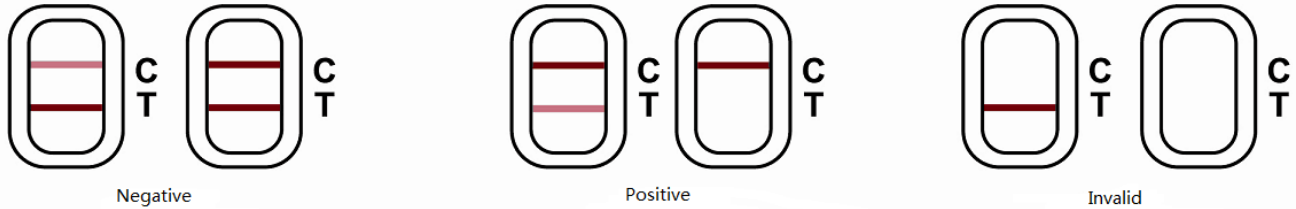
(3) Use a disposable straw to suck the sample solution to be tested, and add 3 drops vertically and slowly into the sample feeding hole (S hole).

(4) Read the results 10 minutes after the reaction began .

## 10. Result

Determination method :

- visual method



**Negative(-)** : Line T and Line C are both red, color of Line T is deeper than or similar to Line C, indicating the isoprocab in sample is less than LOD of the kit.

**Positive(+)** : Line C is red, color of line T is weaker than line C, indicating isoprocab in sample is higher than LOD of the kit.

**Invalid**: Line C has no color, which indicates the strips are invalid. In this case, please read the instructions again, and redo the assay with new strip.

- Instrument method

(1) Open the colloidal gold analyzer and enter the detection interface. Then select the reagent name of the corresponding item.

(2) Insert the strip into the carrier of the colloidal gold analyzer with the end of the sample hole (S hole) outside and click the "test" button, then colloidal gold analyzer will automatically interpret the results.

## 11. Notice for operations

(1) Before each sample inspection, the cutting tools should be cleaned to avoid cross-contamination.

(2) The sample should be used within 30 min after treatment, and if the time is too long, the sample should be treated again and tested again.

(3) Please test according to the operation steps. Please do not touch the color display area of the test strip during operation, and avoid direct sunlight during test.

(4) This kit is disposable, please do not reuse it.

(5) The test results are for reference only. For confirmation, please refer to the relevant national standard method.

## 12. Safety instructions

(1) The experiment should match the corresponding experimental equipment and wear the necessary experimental equipment (white clothes, gloves, masks, etc.).

(2) All the items used in the experiment should be properly disposed of after the application. Children should not be allowed to touch them.

## 13. Specificity

The test shows negative with 10mg/kg of chlorpyrifos, imidacloprid and triazophos.

## 14. Storage

Save the kits in a dry environment of 2 ~ 30℃ away from light.

The kits will be valid in 12 months.