

Isoprocarb Colloidal Gold Test Strips (DTS820L)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Size 50T

Intended Use

The test strip can qualitatively detect the residual amount of isoprocarb pesticide in vegetable (potatoes, cucumbers, cabbage) and fruit samples.

General Description

Isoprocarb is a carbamate ester, derives from a methylcarbamic acid and a 2-isopropylphenol. It has a role as an EC 3.1.1.7 (acetylcholinesterase) inhibitor, a carbamate insecticide and an agrochemical used on rice, cocoa, sugar cane, vegetables and other crop.

Principles of Testing

Isoprocarb rapid test strips apply the principle of competitive suppression immunochromatography. Isoprocarb in the sample will bind to the specific monoclonal antibody labeled with colloidal gold during the flow process, and inhibit the binding of the antibody to the isoprocarb-BSA conjugate on the NC membrane detection line (T line). As a result, the color depth of the detection line changes. When there is no isoprocarb in the sample or the isoprocarb concentration is lower than the detection limit, the color development of T line is stronger than that of C line or no difference from that of C line; when the isoprocarb concentration in the sample is equal to or higher than the detection limit, the line does not develop color or is significantly weaker than line C; regardless of whether the sample contains isoprocarb, the quality control line (C line) will develop color to show that the test is effective.

Reagents And Materials Provided

- (1) Isoprocarb test strips: 50 tests/bottle
- (2) Disposable straws: 50 pcs
- (3) Extraction Buffer: 50 mL X 2 bottles
- (4) Instruction: 1

Materials Required But Not Supplied

- (1) Balance: 0.01 g
- (2) 15 mL polystyrene centrifuge tube

Storage

Keep the test strips in a dry environment at 2-30 °C, protected from light.

This product is valid for 12 months.

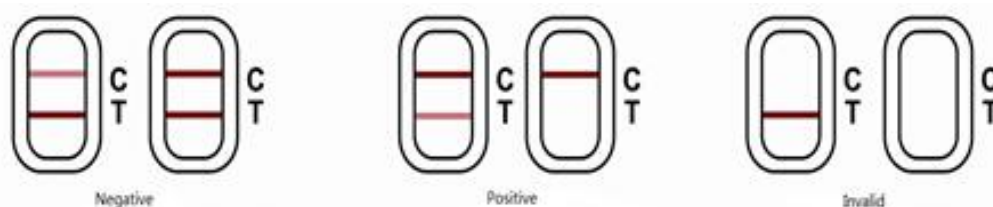
Specimen Collection And Preparation

- (1) The sample should be returned to room temperature (20 ~ 30 °C) before the test, take a fresh sample, wipe off the soil, and cut into pieces smaller than 1 cm square.
- (2) Weigh 1.00 ± 0.05 g sample into a 15 mL polystyrene centrifuge tube, add 8 mL of extraction solution, close the lid, shake manually for 30 s, and let stand for 1 min to obtain the sample to be tested.

Assay Procedure

- (1) Please read the instructions carefully before the experiment. Before use, return the test strip and the sample to be tested to room temperature (20 to 30 °C).
- (2) Remove the test strip from the original packaging bag and use it as soon as possible within 60 minutes after opening.
- (3) Aspirate the sample to be tested with a disposable pipette, and slowly drop 3 drops vertically into the sample hole (S hole).
- (4) After 10 minutes of reaction, determine the result.

Interpretation Of Results



Negative (-): Color of Test Line (Line T) is deeper than Control Line (Line C) or the same color, indicating that the content of isoprocarb in sample is lower than the LOD of the kit.

Positive (+): No color shows in Test line (Line T) or Color of Test Line (Line T) is lighter than Control Line (Line C) indicating that the isoprocarb in sample is higher than the LOD of the kit.

Invalid: No color shows in Control Line (Line C), indicating the operation is incorrect or the test kit is out of date. In this case, please read the instruction again carefully, and repeat the assay with a new test strip.

Detection Limit 0.5 mg/kg (ppm)

Specificity Using this product to detect samples containing 10 mg/kg of chlorpyrifos, imidacloprid, triazophos, the results were negative.

- Precautions**
- (1) Before each sample inspection, the cutter that shreds the sample needs to be cleaned to avoid cross contamination.
 - (2) Use the sample within 30 minutes after the sample is processed. If the time is too long, the sample needs to be reprocessed and tested again.
 - (3) Please perform the test according to the operation steps. Do not touch the color development area of the test strip during operation, and avoid direct sunlight during the test.
 - (4) This test strip is a disposable product, please do not reuse it.
 - (5) The test results of this product are for reference only. For confirmation, please use HPLC or MS for verification.