

Introduction

RenekaBio Pesticide Detection Cards are optimized to detect pesticides residues - carbamate and organophosphates - in fruits and vegetables samples. These Pesticide Detection Cards could be used independently without other equipment.

Limit of Detection

The detection limits of pesticide detection card to several common used pesticides are as follows (ppm):

Methamidophos: 1.7	Malathion: 2.0	Isocarbophos: 3.1	Carbofuran: 0.5	Carbosulfan: 1.0	Dimethoate: 1.3
Parathion: 1.7	Monocrotophos: 2.5	Acephate: 3.5	Carbaryl: 2.5	Dipterex: 0.3	Dichlorvos: 0.3

Storage Conditions

Pesticide Detection Cards should be stored at ventilated and dry environment at room temperature.

After opening the silver pouch : put the unused test cards back in the pouch. Store at dry condition at room temperature and use within 3 days. If the test cards are stored at high temperature and exposed to air for more than 3 days, the test cards may give false results.

Test Procedures

1. Cut sample into small pieces (~1cm). Mix the sample with the provided wash solution 1:2 (w:v) until the sample is damped or slightly soaked - this is to extract pesticide residues from sample. *You may use pure distilled water to replace the wash solution.*
2. Remove the protector film from pesticide detection card. Dip the **ONLY the white disc** into the sample solution (from step 1).
3. Take the card out from the sample solution and let the card stand for **10 minutes**.
4. **Fold** the card in half and pinch the card for **3 minutes**. Let the white disc reacts with the red disc during this process. **Note: be sure to pinch the card firmly. The reaction temperature should be around 37C (body temperature).**
5. See if there is color changes on the white disc.

*It's best to run the test with a **control test** by adding 2-3 drops of the wash solution onto the white disc of a new test card then follow steps 3-4 . This should give you a color for negative result. Then compare the control color with your sample test color.*

Reading the Results

Compared with control test:

Positive results / High Pesticide Residue	No color change (white) or just very light blue of the white disc
Low Pesticide Residue	Light blue color / any color lighter than control test
Negative Results / No Pesticide Residue	White disc change to azure or has the same color with the control test card.

Cautions:

- Keep tests away from children.
- The test regions contains chemical. Please wash hands upon contact.
- Do Not eat or drink.

Video instructions can be found on Youtube: www.youtube.com/c/renekabio

