

Rapid test strip for Pendimethalin

1. Test Principle

This kit is based on competitive indirect immunochromatography technology, in which pendimethalin in sample competes for the colloid gold labeled antibody with pendimethalin coupling antigen captured on test line to cause the change of color of the test line. The color of Line T is deeper than or similar to Line C, indicating the pendimethalin in sample is less than LOD of the kit. The color of line T is weaker than line C or the line T no color, indicating pendimethalin in sample is higher than LOD of the kit. Whether the pendimethalin exist or not, line C will always have color to indicate the test is valid.

2. Applications

This kit is used for rapid qualitative analysis of pendimethalin residue in tobacco leaf.

3. Detection limit

The fresh tobacco leaf: carbendazim: 5mg/kg (ppm)

The dry tobacco leaf: carbendazim: 5mg/kg (ppm)

4. Product Components

- Test cassette 20 tests
- Sample Diluent 20 tubes
- Sample extraction buffer 20bottles
- Kit insert

5. Sample preparations

The fresh tobacco leaf:

- 1) Cut the sample to chips less than 1cm before test.
- 2) Weight 1g of the cut samples or chips into 1 bottle of sample extraction buffer and till to the liquid level is completely saturated
- 3) Cover the cap and shake for 1min.
- 4) Stand for some time. Then take 100ul or take 0.15ml of the supernatant by dropper into 1 tube of sample diluent. Shake and wait for test.

The powder of tobacco leaf:

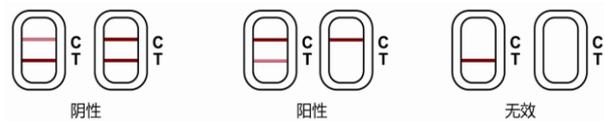
- 1) Cut the sample before test.
- 2) Weight 1.0±0.05g of the cut samples into 1bottle of sample extraction buffer.
- 3) Cover the cap and shake for 1min.

- 4) Stand for some time. Then take 100ul or take 0.15ml of the supernate by dropper into 1 tube of sample diluent. Shake and wait for test.

6. Test process

- 1) Take the required test strips from the bag. Please use within 1h.
- 2) Take the testing liquid by the dropper which is used to take 0.15ml supernatant. Pipette 2-3 drops of the into the sample orifice.
- 3) Start the timer when liquid flows. Read the result within 5-10min according to **Part 7**. It can be as reference if over 10min. if the result is positive, it need to be tested by confirmatory methods.

7. Result



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

Positive(+) : Line C is red, color of line T is weaker than line C or the Line T is colorless, indicating pendimethalin 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.

8. Notice for operations

- Wear gloves when checking sample. Don't touch the sample extraction buffer by hands. The sample extraction buffer has methyl alcohol. Duly handle the unused sample extraction buffer and used sample extraction buffer. Don't give the sample extraction buffer after treatment and the rest sample extraction buffer to children to play.
- Ensure the sample is representative when take the sample.
- For dry tobacco leaf, it needs to be shaken repeatedly to fully extract. Let it stand for layered after extraction.
- Don't use the different batch of test strips and sample

diluents.

- This test is used for only once; please do not use it repeatedly.
- The result is only for reference. Please confirm it according to the related standard methods of country.

9. Specificity

The test shows negative with 100ug/L of metalaxyl, triazolone and iprodione,

10. Storage: 4-30°C in cool dark place, do not freeze. The kit will be valid in 12 months. The lot number and expired date are printed on the package.