
CymMV & ORSV Rapid Test

Cat.No: DTSPV1

Lot. No. (See product label)

Size

50 Tests

Intended Use

The test can be simply used to on-site and rapid detect both Cymbidium mosaic virus (CymMV) & Odontoglossum ringspot virus (ORSV) in infected orchid, without requiring any special equipment or expertise to run.

General Description

Cymbidium mosaic virus (CymMV) and the Odontoglossum ringspot virus (ORSV) are two of the most prevalent and economically important viruses affecting cultivated orchids worldwide. Infected plants can reduce plant vigor and have less desirable flowers or other problems, causing significant financial losses to orchid growers. The virus has not often been reported in wild orchid populations. The virus is spread throughout commercial orchid collections by contaminated tools and pots during division of plants and harvest of flowers; highlighting the importance of virus detection.

Principle of The Test

The development of rapid test strips is based on Lateral Flow Device (LFD) technology using specific antibodies. A LFD format consists of antibody-coated latex beads latex (or colloidal gold) which will bind the specific pathogen antigen absorbed from the plant extract. The agglutination is accumulated at a specific location by the presence of a line of target specific antibody, which immobilises the agglutinated latex whilst allowing the background reagents to be washed away by continued flow along the membrane. The membrane contains a strip of target-specific antibody, test strip and a strip of another antibody that binds to the specific antibody, control strip. Latex beads containing bound antigen are trapped on the test strip leaving a visible line. Surplus latex beads that do not contain antigen are trapped on the control strip showing that the assay has worked. This provides a non-subjective and clear read out of a positive result against a low background.

Reagents and Materials Provided

1. Instructions
2. Rapid Test Strip
3. Sample Buffer Tube
4. Grinding Stick
5. Tube Rack
6. Results Card

Storage

Please store the test kit at room temperature.
Please keep away from direct sunlight.
Please refer to the product packaging for the expiry date.
Please do not use buffer or strip with other test kits.

Plate Preparation

Please Note:
Test kits and reagents are not reusable.

Assay Procedure

Sample Preparation

1. Cut a 5 mm x 5 mm sized sample and place in the Sample Buffer Tube
2. Use the Grinding Stick to grind the sample.
3. Take out the Grinding Stick from the tube.

Test Procedure

1. Open the test strip packaging, extract the test strip and place vertically into the tube.
NOTE: Do not allow the liquid to exceed the arrows.
2. Please wait 15 minutes before removing the test strip from the tube.
3. Place the test strip on to the results card for result interpretation.

Calculation

The Rapid Test Strip provides high sensitivity comparable with ELISA

Interpretation of Results

1. Positive detection of CymMV and ORSV: CymMV and ORSV are detected from the sample when three red bands are visible at the reaction section of the test strip.
2. Negative detection of CymMV and ORSV: CymMV and ORSV are both absent from the sample when only one red band is visible.
3. If no red bands are visible, the test has failed and requires re-testing with a new test kit.
4. Please carry out results interpretation between 15 to 30 minutes of placing the test strip into the buffer. The red bands will fade after 30 minutes and may lead to unreliable results.

Performance Characteristics

Please Note:
Test kits and reagents are not reusable.

Sensitivity

The Rapid Test Strip provides high sensitivity comparable with ELISA

Specificity

The Rapid Test Strip provides high specificity.

Precautions

Please Note:

Test kits and reagents are not reusable.