

# AC Diagnostics' New Product: Immunocapture RT-PCR Kit

**Immunocapture RT-PCR Kit is based on the immunocapture RT-PCR technology and can be used for sensitive detection of plant viruses**

## Immunocapture RT-PCR Kit features:

- ♥ Pre-coated PCR tubes for capturing virus particles which can be directly amplified by PCR.
- ♥ Optimized PCR primers which give robust and reliable test results.
- ♥ Including all PCR assay components and ready to use.
- ♥ Cost-effective and use-friendly, and being suitable for PCR tests of large number of samples.



## Benefits by using Immunocapture RT-PCR Kit:

- ☉ **Getting accurate and consistent result**, every time running a PCR.
- ☉ **Saving funds**, by capturing viral particles on PCR tube without need of expensive RNA extraction kits.
- ☉ **Saving times**, by eliminating the time-consuming sample RNA extraction procedure.
- ☉ **Flexible applications**, by providing universal PCR protocol to fit different PCR cycling systems.

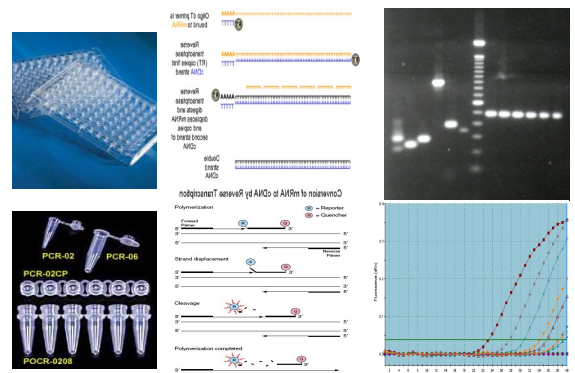


## Immunocapture RT-PCR Procedure:

- ♠ Grind sample in PCR sample extraction buffer.
- ♠ Dispense the ground sample into the tube of PCR plate.
- ♠ Prepare and add positive control into the control tube.
- ♠ Incubate the plate for 2 hours at room temperature, or overnight at refrigerator for convenience.
- ♠ Wash the PCR plate with PCR washing buffer.
- ♠ Prepare primers and mix the primers to master mix
- ♠ Add the master mix into the PCR tube.
- ♠ Perform PCR cycling.

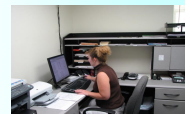
## Kit Components:

- ♦ PCR plates/tubes pre-coated with specific antibody
- ♦ PCR sample extraction buffer
- ♦ PCR plate washing buffer
- ♦ PCR Primers
- ♦ Positive control
- ♦ probe (optional for real-time PCR)
- ♦ Master Mix (optional)
- ♦ Enzyme (optional)
- ♦ Instruction



**Please contact us for detail information on availability this new product:**

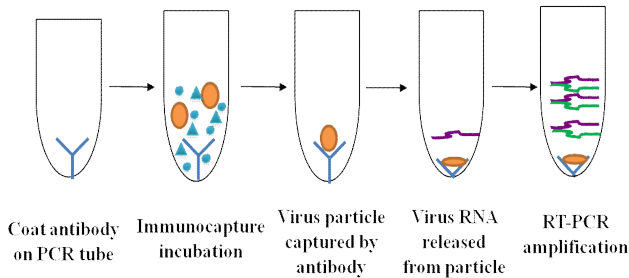
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## How does Immunocapture RT-PCR work?

- ◆ Combines two widely used detection technologies - ELISA and PCR.
- ◆ Eliminates costly and time-consuming sample RNA extraction procedure.
- ◆ Reduces risks from cross-contaminations in sample process .
- ◆ Shortens the test time and reduce assay cost for an accurate disease diagnosis.
- ◆ Makes it possible to routinely conduct RT-PCR assays for large numbers of plant samples.



### Product Development

#### Antibody-Coated PCR tube:

- Coat antibody on PCR tube
- Post-coat and stabilize the coating antibody in PCR tube

#### Specific primers/probe:

- Develop the specific single-, duo-, multiple- or degenerate primers
- Design and label the probe with a fluorochrome and a quencher

#### Conventional or Real-time RT-PCR:

- Optimize the RT-PCR reaction system
- Validate the RT-PCR system for its sensitivity, specificity and reliability.

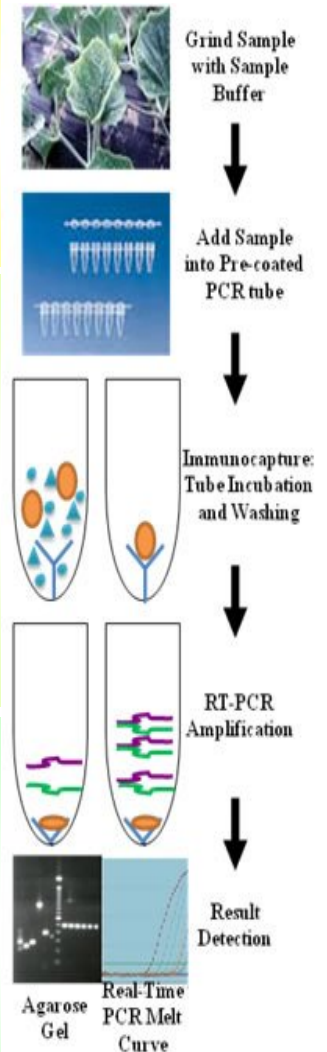
### Immunocapture Kit:

- 1X8 PCR strips pre-coated with specific antibody
- PCR buffers - sample extraction and washing
- Positive and negative controls
- Instruction

Immunocapture kits are currently available for detection of more than 50 plant viruses at AC Diagnostics Inc.

### Immunocapture RT-PCR Kit

- 1X8 PCR strips pre-coated with specific antibody
- PCR buffers - sample extraction and washing
- Positive and negative controls
- RT-PCR primers
- Master Mix (Optional)
- Reverse Transcriptase, and Taq Polymerase (Optional)
- Instruction



## Immunocapture RT-PCR Kits

**Alfalfa Mosaic Virus (AMV)**  
**Barley Stripe Mosaic Virus (BSMV)**  
**Cherry Leaf Roll Virus (CLRV)**  
**Impatiens Necrotic Spot Virus (INSV)**  
**Maize Chlorotic Mottle Virus (MCMV)**  
**Maize Dwarf Mosaic Virus (MDMV)**  
**Pea Enation Mosaic Virus (PEMV)**  
**Peanut Stunt Virus (PSV)**  
**Pepino Mosaic Virus (PepMV)**  
**Pepper Mild Mottle Virus (PMMoV)**

**Potato Virus X (PVX)**  
**Potato Virus Y (PVY)**  
**Tobacco Etch Virus (TEV)**  
**Tobacco Mosaic Virus (TMV)**  
**Tobacco Ringspot Virus (TRSV)**  
**Tomato Aspermy Virus (TAV)**  
**Tomato Mosaic Virus (ToMV)**  
**Tomato Ringspot Virus (ToRSV)**  
**Wheat Streak Mosaic Virus (WSMV)**

