

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.

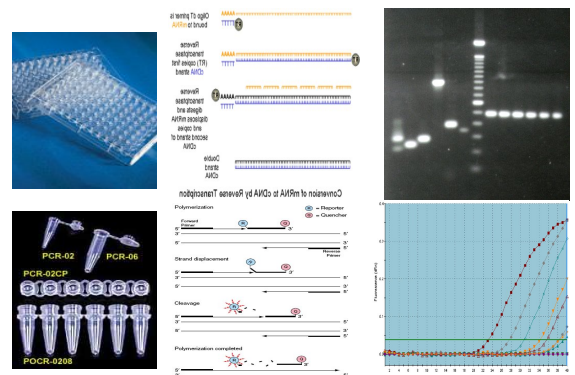


Immunocapture RT-PCR Procedure:

- ♠ 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.

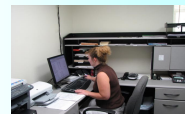
Kit Components:

- ♦ 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:

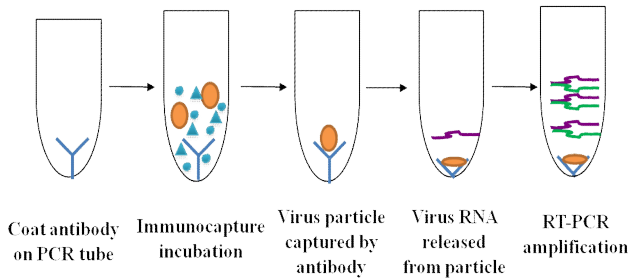
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How does Immunocapture RT-PCR work?

- ◆ 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.



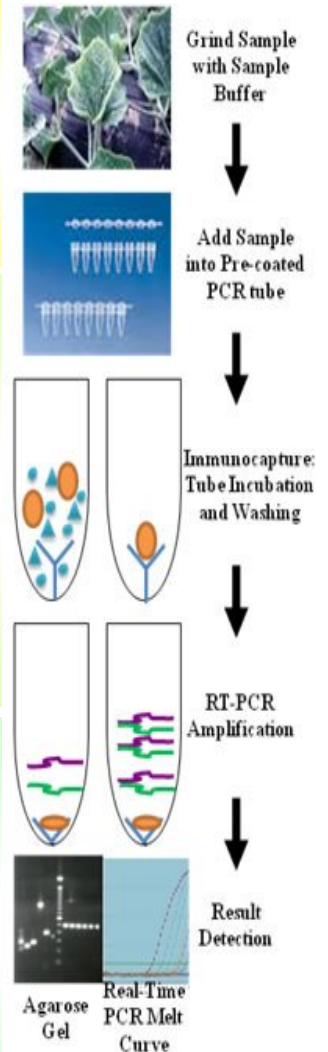
Immunocapture Kit:

- 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



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 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)

