

NEW: Potyvirus One-Tube One-Step RNA PCR

The family of Potyviridae encompasses more than 30% of known plant viruses and very often affects crops of large economical importance, such as potatoes, vegetables, ornamentals, and many more. The Potyvirus group belongs to one of eight genera recognized within the family, with the group being named after the type member **Potato Virus Y**. Potyviruses occur worldwide and are transmitted by more than 200 species of aphids. (Source: Wikipedia)

For sensitive and reliable molecular detection of members of the Potyvirus genus try our new One-Tube One-Step RNA PCR kit !

What we already did for you:

- ✓ optimizing concentrations of primers, dNTPs, Reverse Transcriptase and DNA-Polymerase for reliable and repeatable test results
- ✓ evaluating and optimizing the amplification conditions
- ✓ verifying and validating specificity and selectivity of primers as documented in our product specifications
- ✓ developing and including qualitative method controls (DNA-based)

Therefore your PCR analysis will be:

- 🌱 ready-to-use, fast, and cost effective
- 🌱 conveniently set-up at room temperature
- 🌱 easy to perform, with controls and a comprehensive protocol included
- 🌱 carried out in in one tube with one step and minimal risk of cross contamination
- 🌱 shipped at room temperature - no dry ice needed!

Kit content and Test principle:

Isolated virus RNA from infected plant

Kit Content	
Premix (Primers, dNTPs)	✓
DNA-Polymerase	✓
Reverse Transcriptase	✓
Reaction Buffer	✓
PCR-grade Water	✓
Dithiothreitol (DTT)	✓
Positive Control (DNA based)	✓
Negative Control (DNA based)	✓

3 hours

1. reverse transcription
2. cDNA amplification

Amplified cDNA

Detection in agarose gel electrophoresis

Our kits contain a thermostable Reverse Transcriptase, a Hot-Start DNA Polymerase, pathogen specific primers and dNTPs (premix), and DNA based positive and negative controls for the PCR reaction.

The reaction is carried out in one tube starting with the reverse transcription of plant virus RNA and subsequent cDNA amplification. The resulting amplicon can be visualized on a standard agarose gel.

All reagents are evaluated by our in-house quality validation processes and each kit is provided with detailed instructions, product specifications, and analytical data.

(Please note that reagents for RNA isolation are not included with this kit.)