

ViroReal® Kit Metapneumovirus



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Order no.	Reactions	Pathogen	Internal positive control
DHUV01553	50	FAM channel	Cy5 channel

Kit contents:

- Detection assay for metapneumovirus
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and RNA extraction)
- RNA reaction mix
- Nuclease-free water
- Positive control (RNA) for metapneumovirus



Background: Human metapneumovirus (hMPV) is an enveloped negative single-stranded RNA virus (ss (-)RNA) of the family *Paramyxoviridae*. It was isolated for the first time in 2001. HMPV is present as two genetic lineages, hMPV A and hMPV B. Human metapneumovirus causes upper and lower respiratory tract infections, symptoms very similar to respiratory syncytial virus (RSV). Human metapneumovirus has a worldwide distribution and it is one of the most common causes of lower respiratory infection in young children. Reinfections appear to be common. Co-infection of human metapneumovirus with influenza virus or RSV can occur.

Description: ViroReal® Kit Metapneumovirus is an *in vitro* diagnostic test detecting RNA of the nucleocapsid protein gene of human metapneumovirus (hMPV) strains lineages hMPV A and hMPV B using one-step reverse transcription real-time PCR (RT-PCR). This test allows the rapid and sensitive detection of RNA of metapneumovirus from samples purified from the respiratory tract (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

Metapneumovirus is detected in FAM channel. The internal RNA positive control (RNA IPC) is detected in Cy5 channel and is used as RNA extraction as well as RT-PCR inhibition control. The RNA IPC target is extracted with the sample.

PCR-platforms: This kit has been validated with a LightCycler® 480 Instrument II (Roche), Mx3005P® QPCR System (Agilent), MIC instrument (bio molecular systems), QuantStudio™ 7 Pro (Thermo Fisher Scientific) and qTOWER³G (Analytik Jena). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

Specificity and sensitivity: ViroReal® Kit Metapneumovirus detects at least 10 target copies/reaction. The limit of detection (LoD95 = smallest number of copies of target RNA which can be detected in 95% of cases) is 10.8 target copies/reaction for both genotypes.

Diagnostic evaluation was performed with different viral isolates, with various metapneumovirus isolates and with clinical samples. This kit is specific for so far known hMPV A or hMPV B strains.

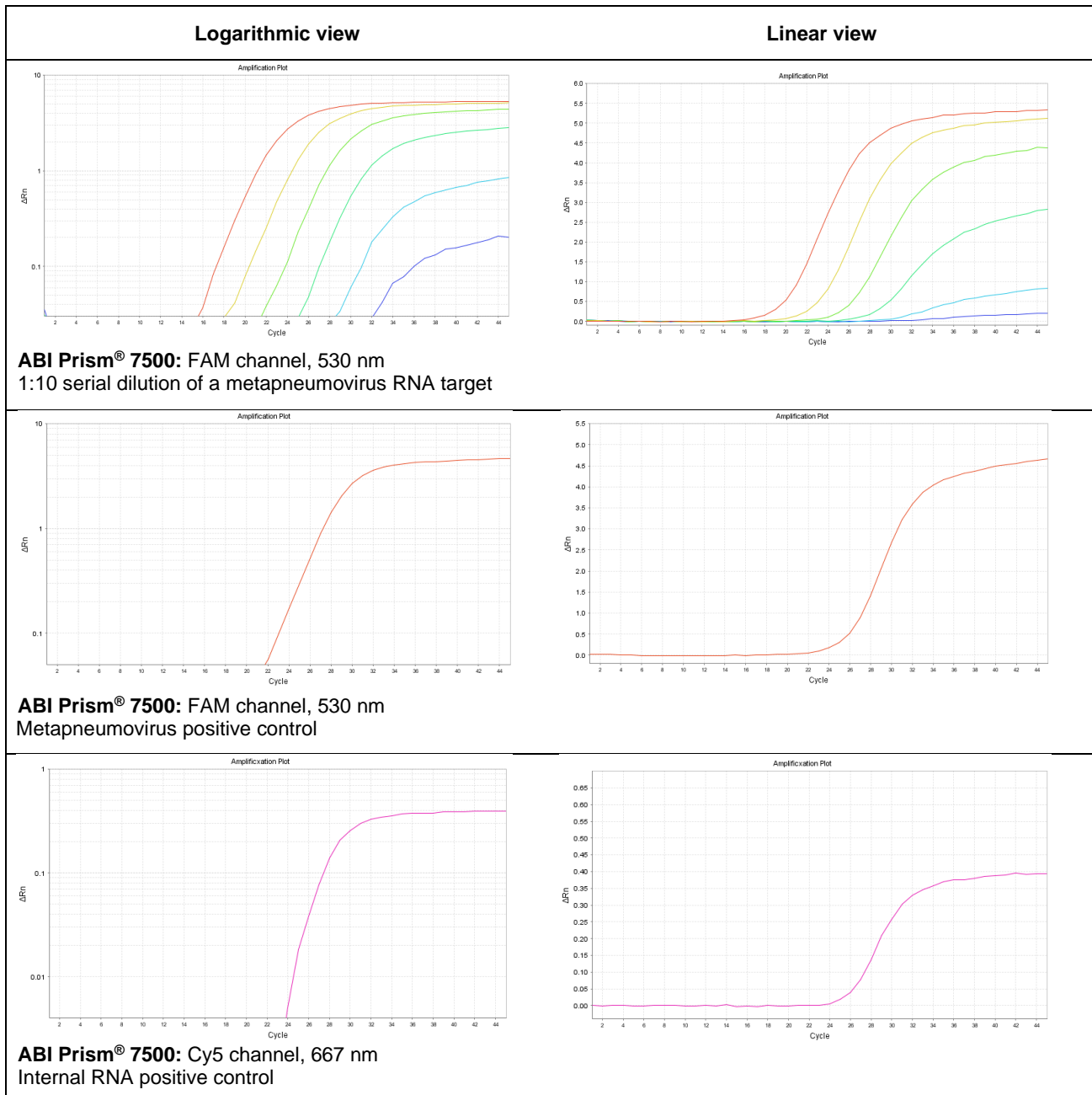


Figure 1 Performance of ViroReal® Kit Metapneumovirus

ViroReal® Kit Metapneumovirus is available in following countries: AT, CY, FI, GR, IE, LU, MC, PT, SE, TR

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