

ViroReal® Kit Influenza A



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Order no.	Reactions	Pathogen	Internal positive control
DHUV01353	50	FAM channel	Cy5 channel

Kit contents:

- Detection assay for influenza A virus
- 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 influenza A virus



Background: Influenza is an acute infectious disease caused by influenza virus A, B or, to a much lesser extent, influenza virus C. Influenza viruses are enveloped viruses with single-stranded, segmented RNA with negative polarity as genome. These viruses can be found worldwide. Epidemics and pandemics are mainly caused by influenza virus A, due to antigenic drift of the hemagglutinin and neuraminidase molecules. Type B and C influenza viruses are isolated almost exclusively from humans, while influenza A viruses infect a wide variety of warm-blooded animals.

Description: ViroReal® Kit Influenza A is an *in vitro* diagnostic test detecting RNA of the matrix protein gene of influenza A virus using one-step reverse transcription real-time PCR (RT-PCR). This test allows the rapid and sensitive detection of RNA of influenza A virus from samples purified from the respiratory tract (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen). Influenza A virus 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 Applied Biosystems® 7500 Fast Real-time PCR System (Thermo Fisher Scientific) and tested with LightCycler® 480 Instrument II (Roche) and Mx3005P® QPCR System (Agilent). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

Specificity and sensitivity: ViroReal® Kit Influenza A 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. Diagnostic evaluation was performed with different viral isolates, with various seasonal influenza A isolates and with clinical samples. This kit is specific for so far known influenza A strains.

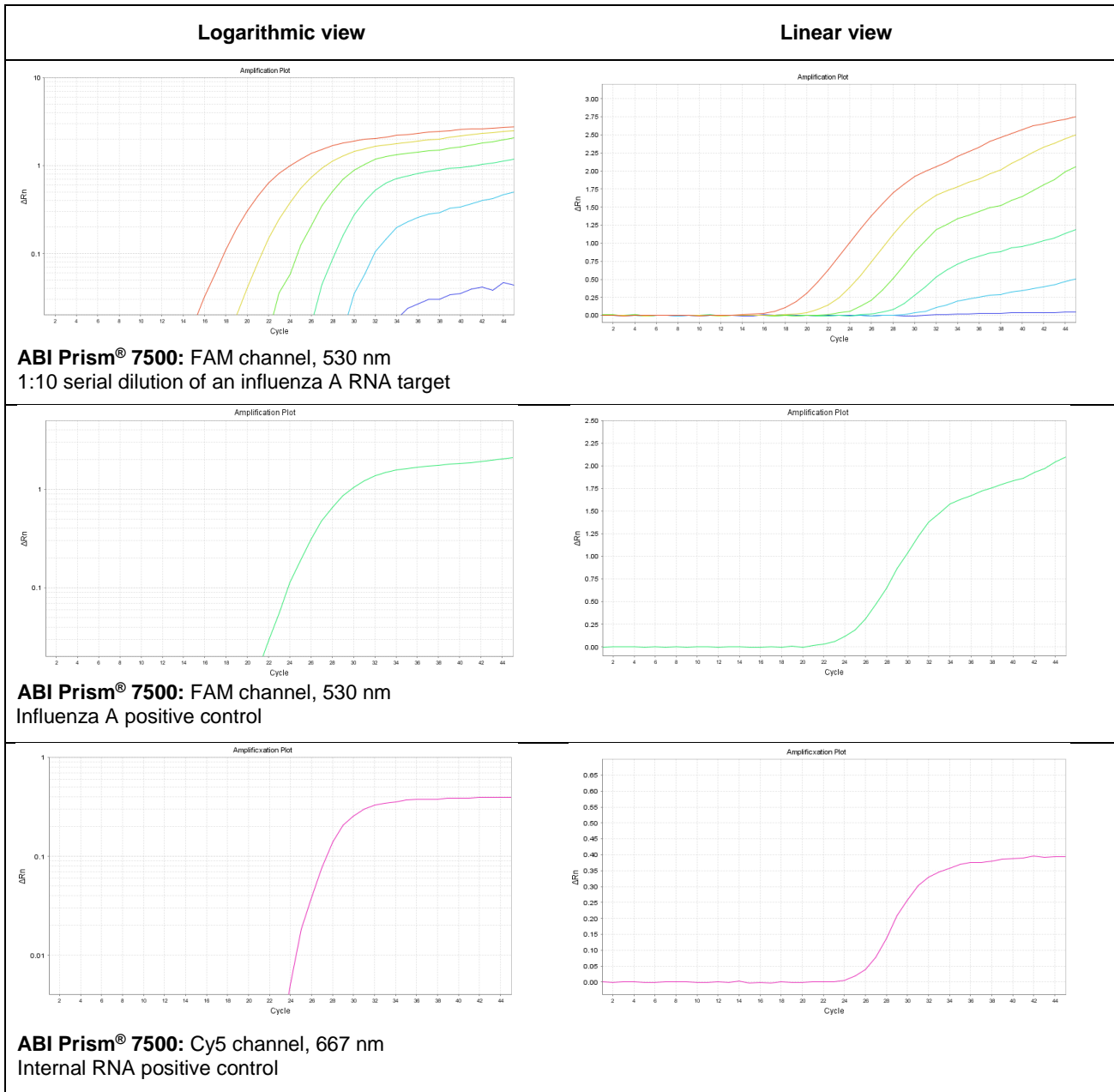


Figure 1 Performance of ViroReal® Kit Influenza A

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