

## ViroReal<sup>®</sup> Kit Rhinovirus (A, B, C)



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Order no.	Reactions	Pathogen	Internal positive control
DHUV01953	50	FAM channel	Cy5 channel

#### Kit contents:

- Detection assay for rhinovirus
- 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 rhinovirus



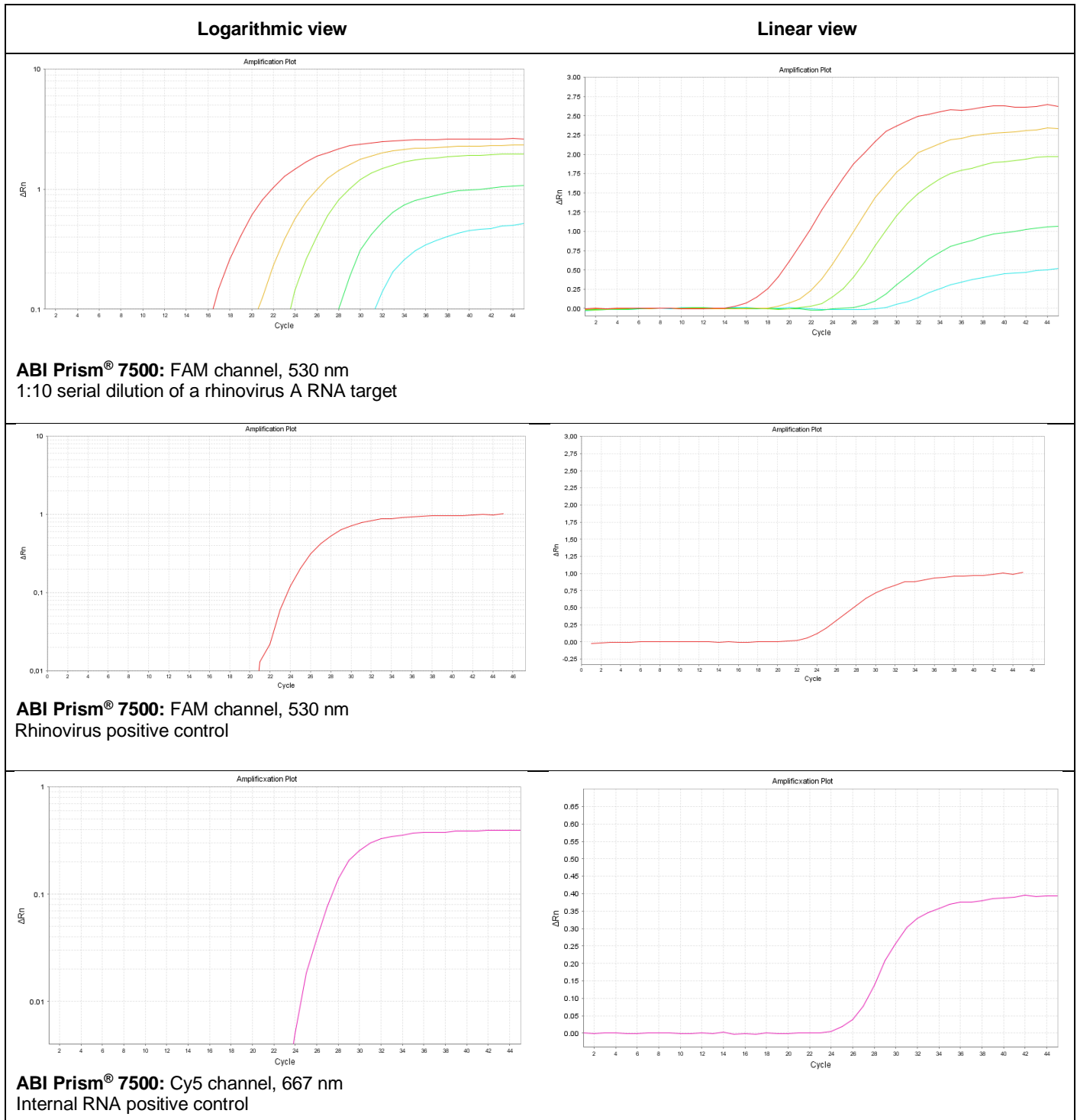
**Background:** Human rhinovirus (HRV) is a single-stranded positive sense RNA virus (ss(+)RNA) in the genus Enterovirus of the family *Picornaviridae*. Rhinoviruses are the most common viral infective agents in humans and are the predominant cause of the common cold. RV infections are chiefly limited to the upper respiratory tract. Although infections occur year-round, the incidence is highest during fall and spring. Most cases are mild and self-limited. Rhinovirus C, unlike the A and B species, may be able to cause sometimes more severe infections.

**Description:** ViroReal<sup>®</sup> Kit Rhinovirus (A, B, C) is an *in vitro* diagnostic test detecting RNA of the 5' UTR of the human rhinovirus species A, B and C using one-step reverse transcription real-time PCR (RT-PCR). This test allows the rapid and sensitive detection of RNA of human rhinovirus from samples purified from the respiratory tract (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

Rhinovirus RNA 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<sup>®</sup> 7500 Fast Real-time PCR System (Thermo Fisher Scientific) and tested with LightCycler<sup>®</sup> 480 Instrument II (Roche) and Mx3005P<sup>®</sup> QPCR System (Agilent). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

**Specificity and sensitivity:** ViroReal<sup>®</sup> Kit Rhinovirus (A, B, C) detects at least 10 target copies/reaction. The limit of detection (LoD95 = smallest number of target RNA copies which can be detected in 95% of cases) is 33 target copies/reaction. Specificity was evaluated with BLAST analyses and by testing viral and bacterial isolates. This kit shows low cross-reactivity with some strains of coxsackie-virus. Diagnostic evaluation was performed with nasopharyngeal aspirates.



**Figure 1** Performance of ViroReal® Kit Rhinovirus (A, B, C)

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