

## ViroReal<sup>®</sup> Kit RSV (A & B)



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Order no.	Reactions	Pathogen	Internal positive control
DHUV02153	50	FAM channel	Cy5 channel

#### Kit contents:

- Detection assay for RSV
- 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 RSV



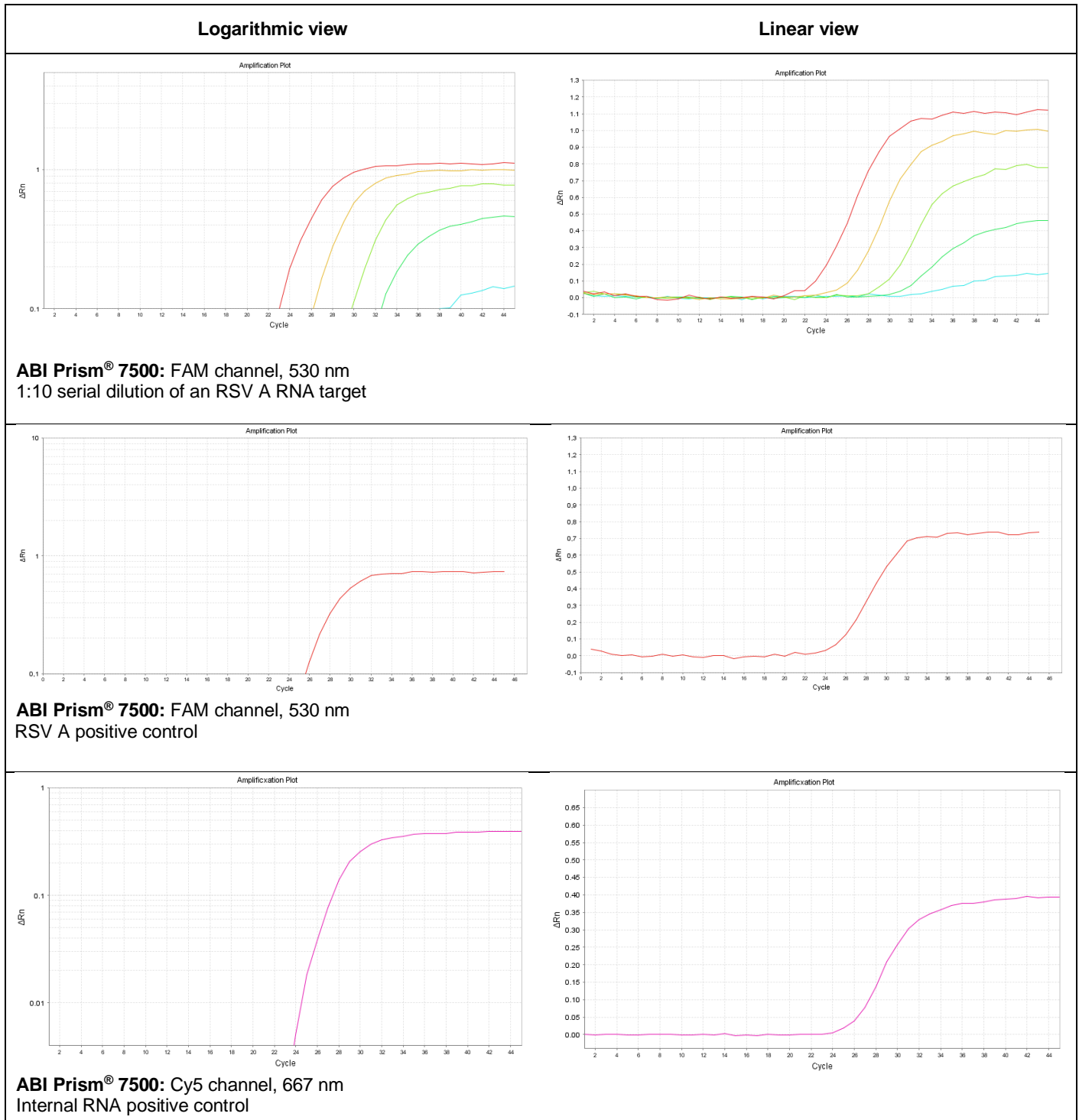
**Background:** Human respiratory syncytial virus (RSV) is a negative-sense, single-stranded RNA virus (ss (-)RNA) of the family *Paramyxoviridae*. RSV consists of two antigenic subtypes, A and B. It causes respiratory tract infections and is a major cause of lower respiratory tract infections and hospital visits during infancy and childhood. In addition, RSV is recognized as an important cause of respiratory illness in older adults. Infection is most common during the winter and early spring e.g. in the rainy season.

**Description:** ViroReal<sup>®</sup> Kit RSV (A & B) is an *in vitro* diagnostic test detecting RNA of the nucleocapsid protein gene of the human respiratory syncytial virus (RSV) type A and B using one-step reverse transcription real-time PCR (RT-PCR). This test allows the rapid and sensitive detection of RNA of RSV from samples purified from the respiratory tract (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

RSV 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 RSV (A & B) detects at least 40 target copies/reaction. The limit of detection (LoD95 = smallest number of target RNA copies which can be detected in 95% of cases) is 50.2 target copies/reaction for RSV A and 41.6 target copies/reaction for RSV B. This kit is specific for so far known RSV strains lineage A and B. Analytical specificity has been evaluated by BLAST analyses and by testing genomic DNA or RNA of viruses and of bacteria. No cross-reactions were observed. Diagnostic evaluation was performed with samples from ring trials and nasopharyngeal swabs.



**Figure 1** Performance of ViroReal® Kit RSV (A & B)

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