

# ViroReal® Kit VZV



## ViroReal® Kit VZV

Order no.	Reactions	Pathogen	Internal positive control
DHUV02253	50	FAM channel	Cy5 channel

*For Research Use Only. Not for use in diagnostic procedures.*

**Kit contents:**

- Detection assay for VZV
- Detection assay + target for internal DNA positive control (control of PCR amplification and DNA extraction)
- DNA amplification mix
- Nuclease-free water
- Positive control for VZV



**Background:** Varicella zoster virus (VZV), also called human herpes virus type 3 (HHV-3) is a double-stranded DNA virus. The VZV is found worldwide (> 95% of persons are seropositive) and is transmitted by droplet infection. Primary infection with VZV causes chickenpox. After primary infection, VZV remains dormant in sensory nerve roots for life. Upon reactivation, the virus migrates down the sensory nerve to the skin, causing herpes zoster (also called shingles). Shingles generally affects the elderly and people with an immune deficiency.

**Description:** ViroReal® Kit VZV is a test detecting DNA of the ORF29 coding for a single-stranded DNA-binding protein gene of VZV using real-time PCR. This test allows the rapid and sensitive detection of DNA of VZV from samples purified from blood, biopsies, cerebrospinal fluid, and swabs (e.g. with the QIAamp DNA Mini Kit or QIAamp DSP Virus Kit). VZV is detected in FAM channel. The internal DNA positive control (DNA IPC) is detected in Cy5 channel and is used as DNA extraction as well as PCR inhibition control. The DNA 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 VZV has a limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) of 5 target copies/reaction. This kit is specific for so far known VZV strains.

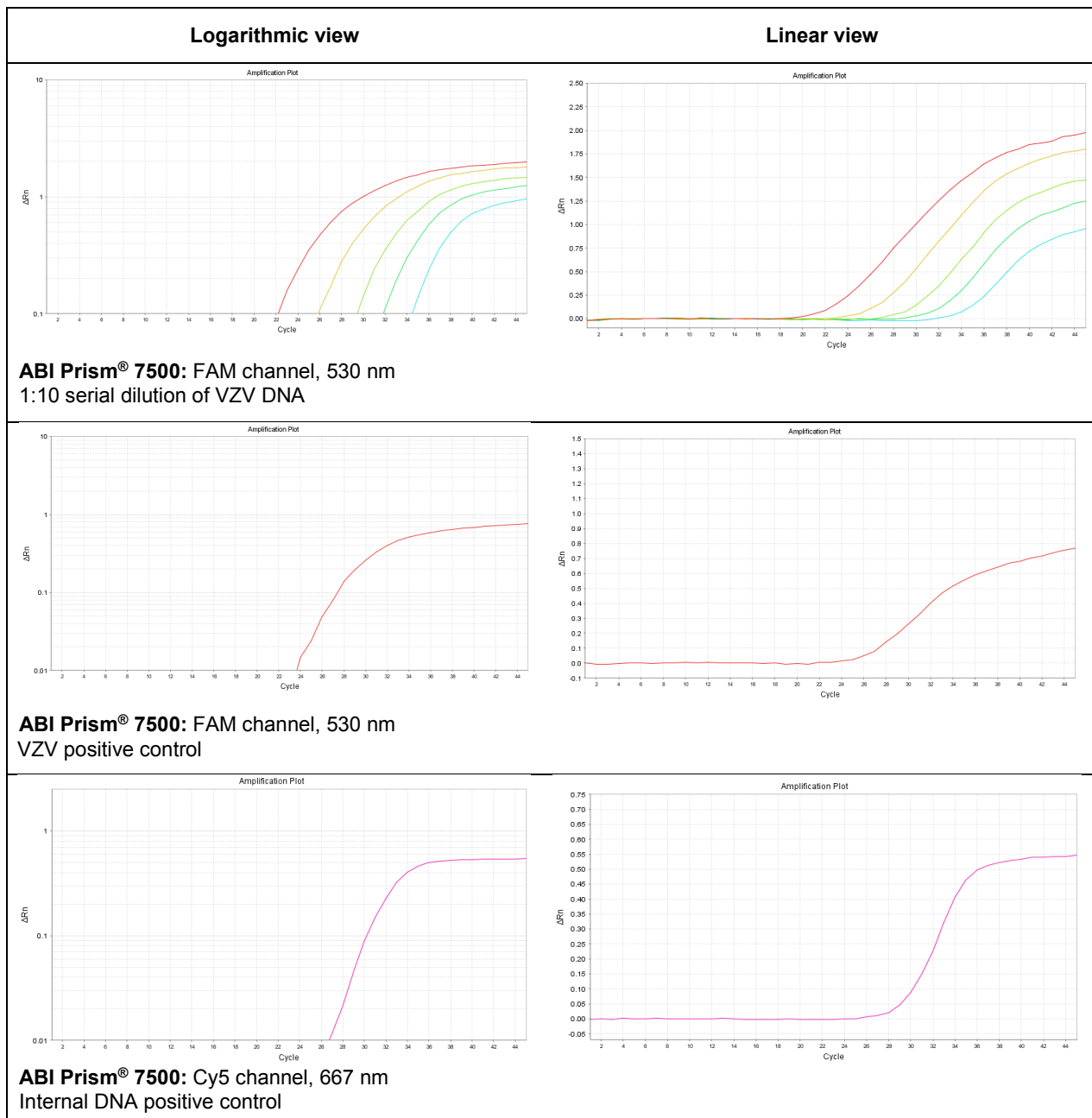


Figure 1 Performance of ViroReal® Kit VZV

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