

ViroReal® Kit Bluetongue Virus (BTV)



For veterinary use only

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Order no.	Reactions	Pathogen	Internal positive control
DVEV02213	100	FAM channel	Cy5 channel
DVEV02253	50	FAM channel	Cy5 channel
DVEV02211	100	FAM channel	VIC/HEX channel
DVEV02251	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for BTV
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and/or RNA extraction)
- RNA reaction mix for one-step reverse transcription real-time PCR
- Nuclease-free water
- Positive control (RNA) for BTV

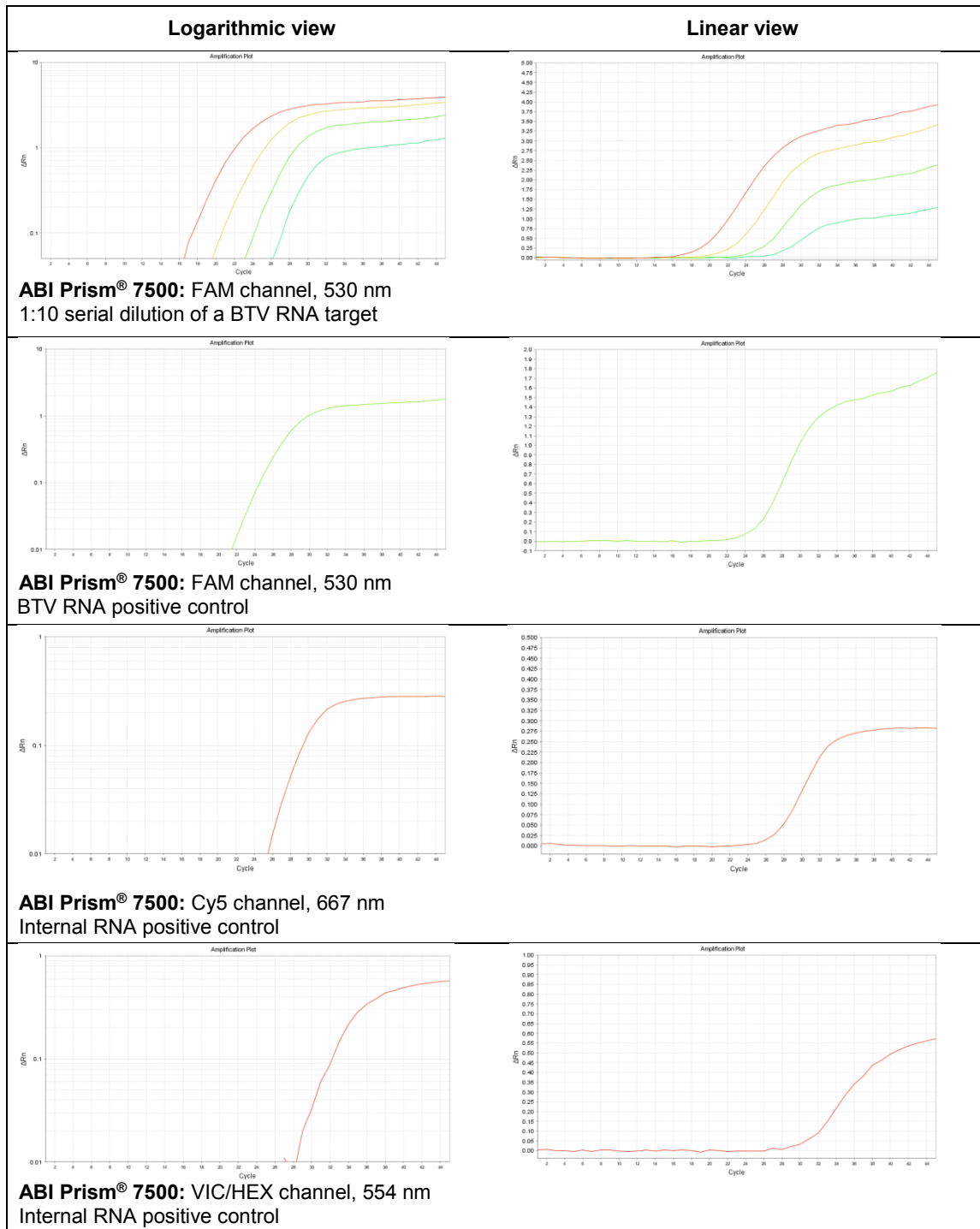


Background: Bluetongue virus (BTV) is a segmented, linear, double-stranded RNA virus (dsRNA), belonging to the *Reoviridae* family and is divided into 28 serotypes. The virus is transmitted by biting midges and infects wild and domestic ruminants such as sheep and less frequently goats, deer and cattle. There is no appropriate treatment of acute disease, which is associated with high morbidity and mortality in some sheep breeds. Prophylactic immunisation with attenuated and inactivated vaccines is available. However, they do not cover all virulent BTV serotypes.

Description: ViroReal® Kit Bluetongue Virus (BTV) is based on the amplification and detection of the segment 10 (NS3) of BTV by one-step reverse transcription real-time PCR (RT PCR). It allows the rapid and sensitive detection of BTV RNA purified from tissues (e.g. spleen, lymph nodes, etc.) and blood (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

PCR-platforms: ViroReal® Kit Bluetongue Virus (BTV) is developed for the ABI PRISM® 7500 instrument (Thermo Fisher Scientific), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: ViroReal® Kit Bluetongue Virus (BTV) detects at least 50 target copies/PCR reaction and is specific for BTV. Sequence comparison ensures the detection of 24 serotypes of BTV.



**BactoReal®, MycoReal, ParoReal and ViroReal® Kits run with the same thermal cycling conditions.
RNA and DNA material can be analysed in one PCR run.**

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