

ViroReal® Kit Bovine Parainfluenza Virus 3



For veterinary use only

ViroReal® Kit Bovine Parainfluenza Virus 3

Order no.	Reactions	Pathogen	Internal positive control
DVEV02813	100	FAM channel	Cy5 channel
DVEV02853	50	FAM channel	Cy5 channel
DVEV02811	100	FAM channel	VIC/HEX channel
DVEV02851	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for bovine parainfluenza virus 3 (BPIV3)
- 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 BPIV3

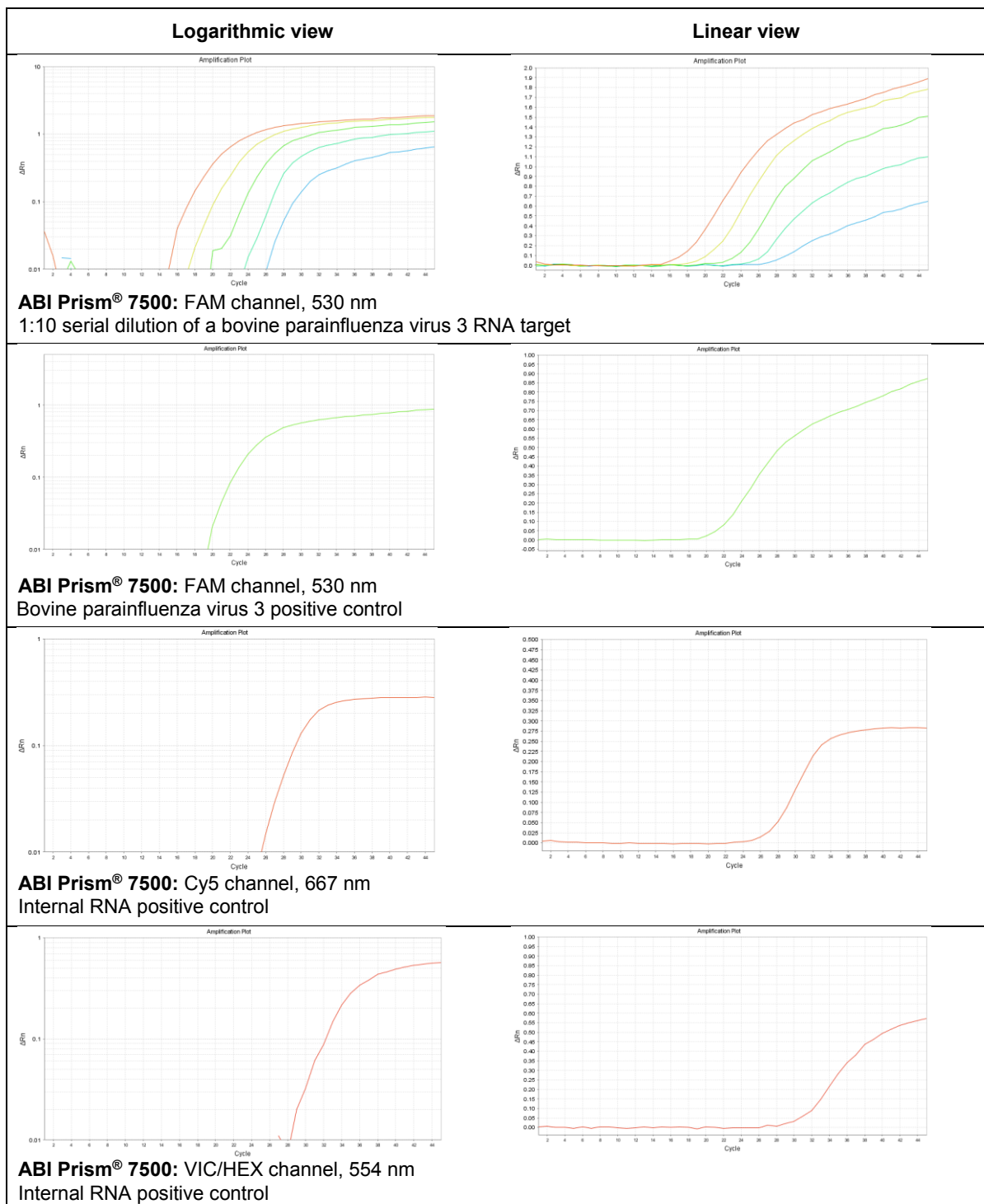


Background: Bovine parainfluenza virus 3 is an enveloped, single-stranded, negative-sense RNA ((-)ssRNA) virus, belonging to the Paramyxoviridae family and genetically and antigenically related to human parainfluenza virus 3. Three genotypes, A (BPIV3a), B (BPIV3b) and C (BPIV3c) have been described, based on genetic and phylogenetic analysis. BPIV3 infections are found in a wide variety of mammals including cattle, humans, sheep, goats, bison, guinea pigs, rhinoceros, moose, bighorn sheep and camels. Cross-species infections have been reported. Usually, viral infection is asymptomatic or associated with only mild respiratory symptoms. In cattle it is associated with the clinical picture known as shipping fever. It is an important virus of the bovine respiratory disease complex. When coinfection with other pneumonia-associated agents (e.g. respiratory syncytial virus, bacteria) is present, severe respiratory disease may develop.

Description: ViroReal® Kit Bovine Parainfluenza Virus 3 is based on the amplification and detection of the phosphoprotein P gene of the so far known BPIV3 genotypes A, B and C by one-step reverse transcription real-time PCR (RT PCR). It allows the rapid and sensitive detection of BPIV3 RNA purified from samples of the respiratory tract (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

PCR-platforms: ViroReal® Kit Bovine Parainfluenza Virus 3 is developed for the ABI PRISM® 7500 instrument (Life Technologies), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: ViroReal® Kit Bovine Parainfluenza Virus 3 detects at least 300 target copies/PCR reaction and is specific for the so far known BPIV3 genotypes A, B and C.



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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