

BactoReal® Kit

Histophilus somni



For veterinary use only

BactoReal® Kit *Histophilus somni*

Order no.	Reactions	Pathogen	Internal positive control
DVEB06113	100	FAM channel	Cy5 channel
DVEB06153	50	FAM channel	Cy5 channel
DVEB06111	100	FAM channel	VIC/HEX channel
DVEB06151	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for *Histophilus somni*
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains a highly purified Taq Polymerase for rapid hot-start PCR, dNTPs with dUTP and Uracil-N glycosylase (UNG) to eliminate amplicon carryover, ROX™ dye (passive reference) and buffer components – additives optimized to handle RT-PCR inhibitors)
- Positive control for *Histophilus somni*
- Water



Background:

Histophilus somni is an unencapsulated gram-negative bacterium and a member of the Pasteurellaceae family. It is a common commensal in the lower reproductive and upper respiratory tract of cattle and other ruminants. *H. somni* is one of the bacterial agents responsible for bovine respiratory disease (BRD) complex and associated with respiratory disease, arthritis, mastitis, myocarditis and reproductive failure in sheep and cattle. Other important bacterial pathogens of BRD are *Pasteurella multocida*, *Mannheimia haemolytica*, *Trueperella pyogenes* and *Mycoplasma bovis*. Mixed infections with these organisms do occur.

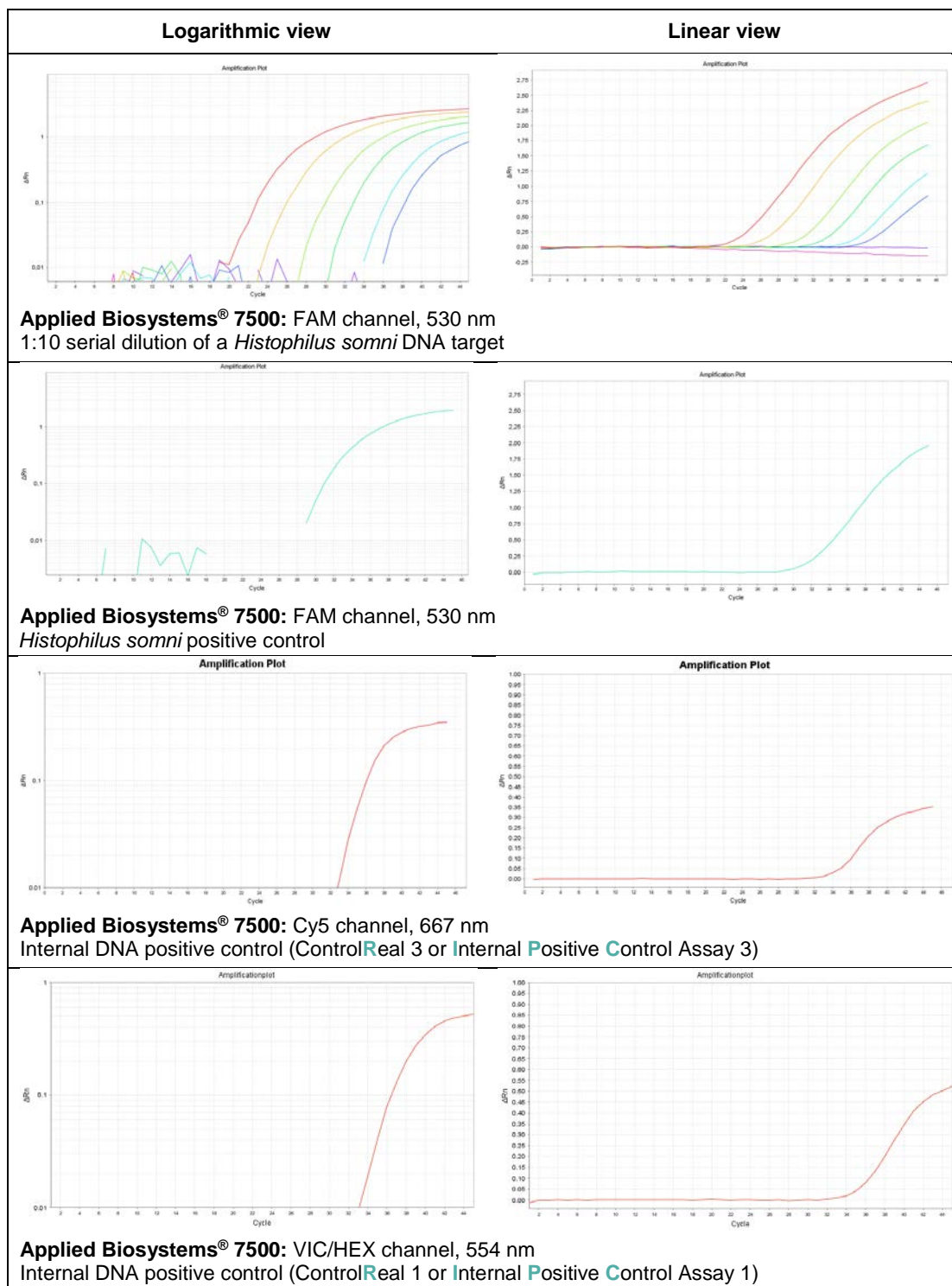
References:

Griffin D. 2010. Bovine pasteurellosis and other bacterial infections of the respiratory tract. Vet Clin North Am Food Anim Pract. 26(1):57-71

Description: BactoReal® Kit *Histophilus somni* is based on the amplification and detection of the 16S rRNA gene of *Histophilus somni* using real-time PCR. It allows rapid and sensitive detection of *Histophilus somni* in samples purified from reproductive tract, tracheal swabs, washes or from lung tissue (e.g. with the QIAamp® DNA Mini Kit, QIAGEN).

PCR-platforms: BactoReal® Kit *Histophilus somni* has been developed for the Applied Biosystems® 7500 instrument (Thermo Fisher Scientific), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is compatible with other real-time PCR instruments.

Sensitivity and specificity: BactoReal® Kit *Histophilus somni* detects at least 10 target copies/PCR reaction. The kit is specific for *Histophilus somni*.



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

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