



Bovicheck® BoHV-1 gB Antibody Test Kit, ELISA

Bovicheck BoHV-1 gB Antibody Test Kit, ELISA is based on a competitive immunoenzymatic assay for the detection of antibodies against bovine herpes virus 1 (BoHV-1) in bovine serum using BHV1-gB specific monoclonal antibodies.

Bovine Herpes Virus 1 (BoHV-1) is causing Infectious Bovine Rhinotracheitis (IBR). The virus is highly contagious and affects domestic and wild cattle. It is present worldwide but it has been eradicated (or in process of eradication) from several countries.

IBR is characterized by clinical signs of the upper respiratory tract (rhinitis, conjunctivitis, tracheitis) accompanied by signs of general illness (fever, depression, inappetence, abortion). Moreover the virus can also infect the genital tract and cause pustular vulvovaginitis (IPV) and balanoposthitis.

Mortality is usually low and numerous infections are subclinical. Following infection the virus persists in a latent state for the entire life of the animals. It can be occasionally reactivated eventually resulting in virus shedding without clinical signs.

During the acute phase of infection the virus can be detected by virus isolation (VI) or polymerase chain reaction (PCR). In the convalescent phase of infection diagnosis is based on the detection of specific serum antibodies by techniques such as the virus neutralization test (VNT) or the enzyme immunosorbent assay (ELISA).

Several ELISA formats (indirect, blocking, competitive) have been developed for detecting BoHV-1 antibodies. Their sensitivity greatly varies but the most efficient ELISAs are as sensitive as the VNT while being far more convenient.

Biovet BoHV-1 gB antibody competitive ELISA has been compared to other ELISAs and appeared to be highly sensitive as well as specific and reproducible. Moreover it is easy to perform and results are available within 2.5 hours. It is particularly convenient to detect animals with low antibody levels.

	Other ELISA pos	Other ELISA neg	
Biovet pos	118	2	120
Biovet neg	0	91	91
	118	93	211

Relative sensitivity: 100.0% relative specificity: 97.8%

References

1. Anonymous. Infectious Bovine Rhinotracheitis / Infectious Pustular Vulvovaginitis Chapter 2.4.13. OIE Terrestrial Manual 2010. www.oie.int/fileadmin/Home/eng/Health_standards/tahm/2.04.13_IBR_IPV.pdf
2. Kramps JA, et al. Comparative study on sixteen enzyme-linked immunosorbent assays for the detection of antibodies to bovine herpesvirus 1 in cattle. *Vet Microbiol.* 1993;35(1-2):11-21.
3. Kramps JA, et al. Evaluation of tests for antibodies against bovine herpesvirus 1 performed in national reference laboratories in Europe. *Vet Microbiol.* 2004;102(3-4):169-81.

IMPORTANT:

- Requires a permit to release veterinary biologics from CFIA in Canada. This product is not licensed by CFIA and any claims made have not been substantiated by CFIA.
- Requires a Research and Evaluation import permit from the USDA in the US. This product is not licensed by the USDA and any claims made have not been substantiated by the USDA.

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