

2015-04-30

BOVICHEK® Leukemia – 2 or 5 plates



PRODUCT CODE: TRM-506/509

DESCRIPTION

This kit is an immunoenzymatic assay intended for the detection of Bovine Leukemia Virus (BLV) antibodies in cattle serum and milk.

SUMMARY AND EXPLANATION

BLV is a retrovirus which causes enzootic bovine leukosis (EBL). Most infections with BLV are subclinical, but a proportion of adult cattle develop persistent lymphocytosis, and eventually lymphosarcomas (tumours) in various organs. Clinical signs, if present, depend on the organs affected.

BLV is present in blood lymphocytes and in tumour cells as provirus integrated into the DNA of the cell. It is also found in the cellular fraction of various body fluids (e.g. saliva, milk). Natural transmission depends on the transfer of infected cells (e.g. during parturition). Some blood-sucking insects may also transmit the virus mechanically. Artificial transmission occurs, especially by blood-contaminated needles, surgical equipment, gloves used for rectal examinations, etc.

Infection with BLV in cattle gives rise to a persistent antibody response. Antibodies can first be detected 3-16 weeks after infection. They are present in both serum and milk. Maternally derived antibodies may take up to 6 or 7 months to disappear. The antibodies most readily detected are those directed towards the envelope glycoprotein gp51 of the virus.

Routine diagnosis of BLV infection is based on the detection of specific antibodies. Serological testing is used in certification programs, eradication programs and for commercial exchanges.

CHARACTERISTICS

- Blocking ELISA: antigens specific to BLV (gp 51 protein)
- Rapid (less than 2 hours)
- Tests per kit:
 - 2 plates: up to 184 samples tested individually or pooled
 - 5 plates: up to 460 samples tested individually or pooled (up to 10 serum samples or 2 milk samples per pool)



Biovet inc.
4375, Beaudry Ave
St-Hyacinthe QC J2S 8W2
Canada
T 1-888-8BIOVET
F 450 771-2996
order@biovet-inc.com

www.biovet.ca

ASSAY PROCEDURE**INCUBATION TIME/ TEMP.**

1. Preparation of samples	
2. Incubation of samples and controls	1h00 / 37°C
3. Successive washes	
4. Incubation with conjugate	30 min / 37°C
5. Successive washes	
6. Revelation with substrate	10 min / room temperature
7. Stop the reaction	
8. Reading optical densities	450 nm

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.