



Detection of BVDV antigen in persistently infected cattle Bovine Viral Diarrhea Virus Antigens Test Kit, ELISA

Biovet BVDV Antigen Test kit is EASY, FAST and INEXPENSIVE compared to other available techniques (virus isolation, PCR, IHC)

BIOVET IMPROVES ITS BVDV ANTIGEN CAPTURE ELISA KIT

We have recently improved our BVDV Antigen Test Kit, ELISA to detect BVDV antigens in ear notch samples. More especially we have improved the sensitivity of the test for these specific samples. Testing about 273 ear notch samples revealed 98.17% agreement between our BVDV Antigen Test Kit, ELISA and another popular ACE commercial kit.

	Other Test +	Other Test -	
Biovet Test +	121	2	123
Biovet Test -	3	147	150
	124	149	273

Relative sensitivity Biovet Test vs. Other Test: 97,58%

Relative specificity Biovet Test vs. Other Test: 98,66%

Relative sensitivity Other Test vs. Biovet Test: 98,37%

Relative specificity Other Test vs. Biovet Test: 98,00%

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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MAJOR ADVANTAGE OF BIOVET BVDV ANTIGEN TEST KIT

- **Excellent sensitivity and specificity** detects both type 1 and 2 BVDV strains
- **Convenient** breakable test plates, most reagents ready to use, all incubations at room temperature test on ear notches, whole blood, serum, plasma or leucocyte extracts depending on the age of the animals
- **High throughput** up to 92 samples/plate, results in less than 3.5 hours

The Bovine Viral Diarrhea Virus (BVDV) is responsible for a variety of costly disorders in cattle. Foetal infections with BVDV sometimes result in the birth of persistently infected (PI) calves. PI animals are mainly responsible for maintenance of the virus in cattle populations. Their rapid identification and removal is the corner stone of efficient BVD control programs. PI animals may be identified by a variety of techniques (VI, PCR, ICH, ELISA) and samples (serum, leucocytes, ear notches). Antigen capture ELISA (ACE) is a popular technique as it is inexpensive and easy to automate. On the other hand ear notch samples are especially valuable in young calves as they are easy to collect and are less exposed to interference by maternally-derived antibodies.

Biovet has developed a capture (sandwich) ELISA kit allowing the detection of BVDV antigen (type 1 and 2) in tissues (ear notches) or the blood (whole blood, serum, plasma or leucocyte extracts) of PI animals. The kit (2 plate format) allows examining up to 184 samples. Reagents provided include:

<u>Quantity</u>	<u>Components</u>
6	4 strips of 8 wells coated with anti-BVDV polyclonal antibodies *
3 vials	Positive BVDV control antigen (freeze dried)
1 x 10 mL	Dilution solution (ready to use)
1 x 100 mL	Hemolysis solution (10X)
1 x 60 mL	Leucolysis solution (ready to use)
1 x 25 mL	Biotinylated anti-BVDV polyclonal antibodies (ready to use) *
1 x 25 mL	Avidin-peroxydase (HRPO) conjugate (ready to use)
2 x 100 mL	Concentrated wash solution (20X)
1 x 25 mL	Substrate (ready to use)
1 x 25 mL	Stop solution (ready to use)

* Biovet BVDV Antigen Test kit is using polyclonal anti-BVDV antibodies produced in BVDV free animals according to an original immunization protocol. These polyclonal antibodies provide an excellent sensitivity and specificity of the test.

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For further information visit www.biovet-inc.com or contact customer service:

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