



BVDV/MD ANTIGENIC DETECTION ELISA KIT

Diagnosis test for cattle

BIO K 258/2

BVDV virus is known to induce a wide variety of foetal and postnatal disorders. Two pathologies are most commonly related to this virus in cattle : bovine viral diarrhoea (BVD) and mucosal disease (MD). The latter is always lethal. It arises from a surinfection of immunotolerant persistently infected (IPI) animals. These animals produce continuously the virus in a non-cytopathic form and are therefore mainly responsible for disease spreading. A persistently infected animal surinfected with a cytopathic strain identical to the noncytopathic one will develop the mucosal disease. Disease prevention against this pathology must be performed through immunotolerant persistently infected animal detection. The ELISA technique allows a diagnosis easier to perform than in vitro sample culture. It has been shown that results from these two methods are similar although ELISA do not always allow transient infected animal detection.

EIA Procedure

- 1- Microplate coated with monoclonal antibody anti-NS3 protein.
- 2- Add samples, positive and negative controls.
Incubate 1 hour at 21°C +/- 3°C
Wash
- 3- Add conjugate.
Incubate 1 hour at 21°C +/- 3°C .
Wash
- 4- Add chromogen TMB
Wait 10 minutes.
- 5- Add stop solution.
Read at 450 nm

Use of the kit

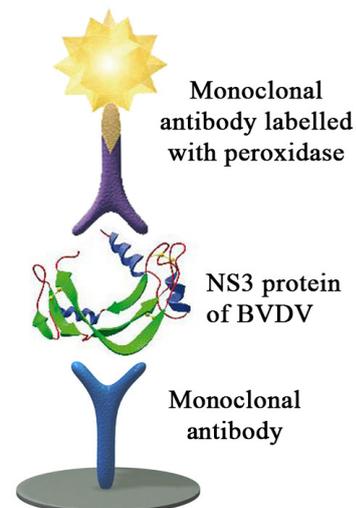
The kit is designed to detect immunotolerant animals. It works with lysates of purified leukocytes.

Reliable Results

The use of monoclonal antibody as conjugate ensures excellent specificity and very reliable results. The use of a monoclonal antibody to purify non structural NS3 protein on the plate allows to get excellent specificity.

Ease-of-Use

Minimal hands-on-time
Room temperature incubation
Results available in 140 minutes.





Example of results

RT-PCR

ELISA BIO K 258

	+	-	
+	19	1	20
-	2	107	109
	21	108	129

Relative sensitivity: 90 %
Relative specificity: 99 %

Concordance between the two tests: Kappa = 0.913
The concordance between the two tests is considered excellent.
Landis et Koch, The measurement of observer agreement for categorical data
Biometrics 1977, 33, 159-74

Composition of the kit

BIO K 258 : BVDV/MD ANTIGENIC DETECTION ELISA KIT

	BIO K 258/2
Microplates	2
Washing solution	1 x 100 ml (20x)
Haemolysis solution	1 x 100 ml (10x)
Lysis solution	1 x 100 ml (1x)
Conjugate	1 x 25 ml (1x)
Positive control	1 x 1 ml (1x)
Negative control	1 x 1 ml (1x)
Single component TMB	1 x 25 ml (1x)
Stopping solution	1 x 15 ml (1x)

Stability : One year between +2°C and +8°C

