

# B. Brucella Ab ELISA 2.0

## Bovine Brucellosis antibody

Bovine brucellosis is commonly caused by *Brucella abortus* and less frequently by *B. melitensis*, and rarely by *B. suis*. Humans may be infected by contact with animals or animal products contaminated with these bacteria. Serological tests include the Rose Bengal, ELISA, complement fixation test and tube agglutination test. BIONOTE B.Brucella Ab ELISA Kit is a serology test that provides high sensitivity and specificity with bovine milk and serum samples.



## Indications

- Diagnosis of bovine brucellosis in lab
- Screening for test and slaughter government policy
- Massive screening for bovine import & export market

## Special Features

- Fully meets the requirement of EU Council Directive and the OIE Manual
- Standardized by OIE standard sera (B.abortus 1119-3)
- No cross reaction with yersinia enterocolitica
- Specimen: plasma, serum, milk
- Reading time: 1 hour and 45 minutes
- Sensitivity: serum 100%, milk 100% (Vs Commercial ELISA)
- Specificity: serum 97.9 %, milk 99.1% (Vs Commercial ELISA)

## Quick Procedure

1. Prepare LPS coated test plate
2. Dilute test samples 1:49 with sample diluent (Do not dilute controls and Milk)
3. Add 100 µl of positive control, negative control, and diluted test samples
4. Incubate the plate for 60 minutes at 37°C
5. Wash plate 5 times
6. Add 100 µl of diluted enzyme conjugate to wells
7. Incubate plate for 30minutes at 37°C
8. Wash plate 5 times
9. Add 100 µl of mixed substrate (Ready to use) to each well and incubate for 15 minutes at room temperature
10. Add 100 µl of stopping solution
11. Measure the optical density (OD) at 450nm with reference wavelength at 620nm
12. %P value =  $[\text{OD}_{\text{sample}} / \text{mean OD}_{\text{PC}}] \times 100$

### (1) Study in serum Specimens :

Total 271 of positive and negative cow serum from KNVRQS\*

		BIONOTE ELISA		Total
		+	-	
Other commercial	+	127	0	127
ELISA	-	3	141	144
Total		130	141	

### Result

Sensitivity	100%	Specificity	97.9%
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### (2) Study in raw milk Specimens :

Total 271 of positive and negative cow milk from KNVRQS\*

		BIONOTE ELISA		Total
		+	-	
Other commercial	+	68	0	68
ELISA	-	1	116	117
		69	116	

### Result

Sensitivity	100%	Specificity	99.1%
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## Ordering Information

Cat. No.	Description	Type	Packing size
EB4301PO	B.Brucella Ab ELISA 2.0	Microplate	480 Wells/Kit