



Anigen Rapid B. Brucella Ab Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of *Brucella abortus* antibody in whole blood, plasma, serum or milk.



CAT.No.: RB23-01

Bovine brucellosis is commonly caused by *Brucella abortus* and less frequently by *B. melitensis*, and rarely by *B. suis*. Infection is widespread globally. Humans may be infected by contact with animals or animal products contaminated with these bacteria. Available serological tests include the Rose Bengal, ELISA, complement fixation test and tube agglutination test. However, these tests do not provide rapid diagnosis and each requires specialised laboratories and equipment. The new Anigen immunochromatographic rapid assay was developed to provide accurate, rapid and easy testing of *B. brucellosis*.

- Principle: Immunochromatographic assay
 - (LPS capture)-(Antibody in blood, milk)-(Protein G detector)
 - LPS (Lipopolysaccharide) antigen originated from *B. abortus*
 - Purpose: Detection of *Brucella abortus*, *melitensis* or *suis* antibodies
 - Specimen: Bovine whole blood, serum, plasma and raw milk
 - Reading time: 20 minutes
 - Sensitivity: 97.9% vs. a commercial ELISA, 96.2% vs. Milk Ring Test.
 - Specificity: 96.8% vs. a commercial ELISA, 89.7% vs. Milk Ring Test
 - No cross reaction against *Brucella canis*, *Yersinia Enterocolitica*
 - Shelf life: 24 months
 - Storage temperature: 2~30°C
 - Packing size: 30 multi-devices/Kit, 10 tests/Kit
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- Optimal screening method for Bovine brucellosis in the farm or laboratory
 - Detection of antibodies against *Brucella abortus*, *melitensis*, *suis*
 - High sensitivity versus a current confirmatory ELISA kit in blood, milk specimens
 - Detection of *B. brucellosis* in goats, cows and oxen
 - World's first commercialized rapid test kit for detection of *B. brucellosis*
 - Easy test procedure: No technical expertise required
 - Labor & Time saving with results in 20 minutes
 - All components are included in the test kit. No additional equipment is required.
 - Fast diagnosis helps to minimise losses to farmers and their cattle

Independent Comparison Study

1) Sensitivity and Specificity in serum

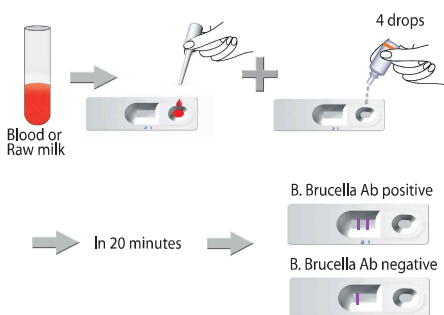
No. of Specimen		VLA B. Brucella ELISA, UK	
		Positive result	Negative result
Anigen Rapid B. Brucella Ab Test	Positive result	30	4
	Negative result	2	224
	Total	32	228
Sensitivity		30/32=93.8%	
Specificity		224/228=98.2%	

2) Sensitivity and Specificity in raw milk

Raw milk		"S" ELISA for B.Brucella Ab	
		Positive result	Negative result
Anigen Rapid B. Brucella Ab Test	Positive result	30	0
	Negative result	1	35
	Total	31	35
Sensitivity		30/31=96.7%	
Specificity		35/35=100%	

Raw milk		Milk Ring Test	
		Positive result	Negative result
Anigen Rapid B. Brucella Ab Test	Positive result	26	4
	Negative result	1	35
	Total	27	39
Sensitivity		26/27=96.2%	
Specificity		35/39=89.7%	

RAPID



	Rose Bengal & Milk Ring Test	Anigen Rapid Test	Anigen's benefit
Specimen	-Rose Bengal: Serum -Milk Ring Test: Milk	Whole blood, Serum, Plasma, Raw milk available	All specimens are available
Testing Method	- Rose Bengal 1)Preparation of serum 2)1 drop of reagent of Rose Bengal + 1drop of serum : Mixing 3)Interpret the result within 4 min. - Milk Ring Test (MRT) 1)Adding of 1ml of milk into a tube 2)Adding of 30ul of MRT reagent 3)Waiting for 1 hour at 37° C 4)Reading the result	1) Adding 1 drop of specimen 2) Adding one drop of assay diluent 3) Reading the test result at 20 min.	Easy test procedure
Reading Method	-Rose Bengal : Agglutination -MRT : Changing of blue color of Milk	Positive : 2 lines Negative : 1 line	Simple
Testing time	one day	20 Min.	Rapid Testing