

ELISA kit for the detection of *Brucella abortus* IgA in the research laboratory

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55R-IB79210

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ELISA kit for the detection of *Brucella abortus* IgA in the research laboratory

More information

Name:	ELISA kit for the detection of <i>Brucella abortus</i> IgA in the research laboratory
Product group:	Kits
Product Number:	ABCA0131558
Price	Please Enquire
Quantity:	96 Test(s)
Type of Kit:	ELISA
Non Confirming product:	replace the product at no cost.



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Description:

Brucellosis is an infectious disease caused by small ellipsoid, gram-negative bacteria. There are four different germs: *Br. abortus*, *Br. melitensis*, *Br. suis* and *Br. canis*. People are infected by contact with infected animals or by eating meat or drinking unpasteurized milk from infected animals. As a rule, infected humans are not contagious. Brucellosis is most frequent in young and middleaged individuals. Endangered persons are butchers, farmers, owners of pets, veterinaries and tourists in Southern countries. The appearance of brucellosis shows a prevalence during winter and spring. The incubation period is between one and three weeks, but may be as long as two months. *Br. abortus* and *Br. melitensis* may cause Bang's Disease, or in rare cases Malta Fever. The first appears occasionally with a low pathogenicity for man. Typical symptoms for Bang's Disease are periodically occurring fever, splenomegaly and swelling of lymph nodes. In some cases an inflammation of different joints and organs occurs. The Malta Fever is caused by the epidemic type of brucellosis, and infection almost always

leads to a manifest illness. Some infections with *Brucella* can cause *Brucella* Hepatitis. It is possible that there is a link between an infection with *Brucella* and the outbreak of multiple sclerosis. During an antibiotic therapy or a chronic infection, the detection of *Brucella* spec. in blood, urine, cerebrospinal fluid, sputum or other body fluids could be negative. Serological methods like agglutination, complement fixation reaction, *Brucella* Coombs test and ELISA are good alternatives. The monitoring of antibodies can serve as a usual indication of the status of infection. During the first days, IgM is the only immunoglobulin that appears. As the disease progresses, IgM recedes quantitatively and IgG becomes predominant. In chronic brucellosis, IgG may be produced for an extended period.

Application	
Applications:	ELISA
Application notes:	Optimal conditions to be determined by end user
Research area:	Infectious Diseases

Components				
Component	Concentration	Description	Volume	Cap Color
Notes		This <i>Brucella</i> IgA antibody test kit is based on the principle of the enzyme immunoassay (EIA). <i>Brucella</i> antigen is bound on the surface of the microtiter strips. Diluted patient serum or readytouse standards are pipetted into the wells of the microtiter plate. A binding between the IgA antibodies of the serum and the immobilized <i>Brucella</i> antigen takes place. After a one hour incubation at room temperature, the plate is rinsed with diluted wash solution, in order to remove unbound material. Then readytouse anti humanIgA peroxidase conjugate is added and incubated for 30 minutes. After a further washing step, the substrate (TMB) solution is pipetted and incubated for 20 minutes, inducing the development of a blue dye in the wells. The color development is terminated by the addition of a stop solution, which changes the color from blue to yellow. The resulting dye is measured spectrophotometrically at the wavelength of 450 nm. The concentration of the IgA antibodies is directly proportional to the intensity of the color.		

Product Information	
Storage:	Store at 2-8 deg C

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