

Francisella tularensis IgM ELISA Kit | IgM elisa kit

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CATALOG #
AAA72659

PRODUCT SYNONYMS

Francisella tularensis IgM; Francisella tularensis IgM ELISA Kit; IgM elisa kit

PRODUCT SPECIFICATIONS

Specificity	The Francisella tularensis IgG and IgM ELISA were verified in an internal study. The Sensitivity in both cases exceeded 99%. The Specificity in IgG was 96.9% and for IgM exceeded 99%.
Samples	Various kinds of samples
Preparation and Storage	2 - 8 degree C

ADDITIONAL INFORMATION

Related Product Information for IgM elisa kit	Intended Uses: The ELISA Francisella tularensis IgG and IgM tests are qualitative immunoassays for the detection of human antibodies directed against the lipopolysaccharide (LPS) of Francisella tularensis. These assays are recommended for the sensitive detection of such antibodies in various kinds of samples. These kits are for research use only. Principle of the Assay: The ELISA (Enzyme Linked Immunosorbent Assay) is an immunoassay, which is particularly suited to the determination of antibodies in various kinds of samples. The reaction is based on the specific interaction of antibodies with their corresponding antigen. The test strips of the microtiter plate are coated with specific antigens of the pathogen of interest. If antibodies in the sample are present, they bind to the fixed antigen. A secondary antibody, which has been conjugated with the enzyme alkaline phosphatase, detects and binds to the immune complex. The colourless substrate p-nitrophenylphosphate is then converted into the coloured product p-nitrophenol. The signal intensity of this reaction product is proportional to the concentration of the analyte in the sample and is measured photometrically.!!Background/Introduction: Tularemia is a zoonosis caused by the Francisella tularensis bacterium and which can manifest in a variety of clinical conditions. Since the condition in animals resembles that of plague and the disease often affects hares and wild rabbits, it is also called rodent plague. Other traditional names for it are rabbit fever, lemming fever or Parinaud's disease. Francisella tularensis (formerly also called Pasteurella tularensis) is a gram-negative pleomorphic bacterium. The three relevant forms of the four subspecies are difficult to differentiate. Two types can be distinguished epidemiologically, biochemically and genotypically: Francisella tularensis biovar tularensis (type A) is highly virulent and, untreated, the infection has a high mortality rate. Francisella tularensis biovar holarctica (type B) is much less virulent but can also cause severe illness. Various small mammals, such as hares, rabbits, mice, rats and squirrels, are natural reservoirs of Francisella tularensis. The pathogen has also been detected in soil samples and water courses and can survive there for a prolonged period depending on climatic conditions. ELISA test-systems are especially suited for the differential analysis of immunoglobulin classes directed against the virus.
Product Categories/Family for IgM elisa kit	Infectious Disease; Research Assays; Assay Categories

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/elisa-kits/francisella-tularensis-igm/72659>