THE TRIAL OF EXPERIMENTAL TEST-SYSTEM FOR THE SPECIFIC DIAGNOSTICS OF CATTLE TUBERCULOSIS

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The aim of the research was the experimental investigation of test-system on the panels of blood serum from healthy, leukemic, and experimentally infected with various *Mycobacterium* species cows. The results of serological testing of biological samples from cattle infected with different strains of *Mycobacterium*

are presented. The analysis of informative indicators (sensitivity and specificity) of test system for the diagnosis of tuberculosis based on the determination of the immunoglobulins G to bovine tuberculosis pathogen *M. bovis/M. tuberculosis*

, was done using chimeric recombinant protein MPT83(115-220)-MPT63 as an antigen. Above-mentioned recombinant protein is based on antigens of *M. bovis/M. tuberculosis*

and achieves high sensitivity and specificity of the test system because it reduces the likelihood of false positive results caused by infection with atypical mycobacteria. The developed test system «IB-Chem Anti-Mycobacterium bovis» was tested at the State Scientific Control Institute of Biotechnology and Strains of Microorganisms and is recommended for use.

**Key words:** tuberculosis, cattle, recombinant proteins, test system.

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{spoiler title=References}


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