IMPROVED COMPOSI	TION FOR THE DIAGNOSIS OFMYCOBACTERIUM BOVIS IN MAMMALS		
Offering Organization:	Centro de Investigación y Asistencia en Tecnología y Diseño del Estado		
	de Jalisco, A.C.		
Type of Organization:	Public Research Center		
Development Stage:	Commercial Concept Tests		
Desired Relationship:	 Technological research and development financing (technological partner) Specialized application tests Creation of a new company (Joint Venture) for the commercialization of the products outlined herein Licensing of patents 		
Sector:	Biomedical Biotechnology		
Area of knowledge:	Medicine		
Key words:	Mycobacterium bovi, tuberculosis bovina		
DETAILED DESCRIPTION:			
 Bovine tuberculosis, caused by <i>Mycobacterium bovis</i>, is one of the most important chronic contagious and infectious zoonsis in livestock, both because of its impact on public health and its economic consequences. The number of incidents limits the development of livestock and associated products, due to the approximate decrease of 20 % of milk and meat production and 5% in the reproductive capacity of the herd, which causes a restriction on the sale and export of meat from sick animals. Although there are a wide variety of ways to diagnose <i>Mycobacterium</i> infections, such technologies are focused on the diagnosis of human tuberculosis, none of which establish the specific mixture or amounts that could be used for optimizing the diagnosis of <i>M. bovis</i>. Solution: The present invention describes and claims an improved composition to be used in the detection of <i>Mycobacterium bovis</i> in mammals. Said composition is comprised of both HspX and PfkB recombinant proteins along with bovine PPD. New and Innovative Aspects: This invention synthesizes the HspX and PfkB recombinants from <i>M. bovis</i> as specific proteins through a DNA technology to be used as additional synergistic components in a 			
PPD-B mix for the detection of true cases of <i>M.bovi</i> infections. TECHNICAL CHARACTERISTICS:			
This invention proposes the specific mixture of the complete recombinant proteins HspX and PfkB from <i>M.bovis</i> joined with histidines in a synergistic mixture along with the stimulation of the nonspecific antigen PPD-B, producing it with mixtures of blood and/or fluids, those of which generate a cell-mediated immunity response and produce an increase in the detection-sensitivity of the test due to the production of much higher levels of IFN-gamma than with the use of PPD-B y PPD-A alone.			
Main advantages derived	Main advantages derived from its utilization:		

 Increases the sensitivity of the specific detection of <i>M. bovis</i> to 99% compared to the test (Bovigam[®]) 		
Applications:		
 In the field of animal diagnostics for the detection of <i>Mycobacterium bovis</i>. 		
INTELLECTUAL PROPERTY		
 Patent filed in 2012 		
– MX/a/2012/007516		
ABOUT THE OFFERING ORGANIZATION		
Presentation:	El Centro de Investigación y Asistencia en Tecnología y Diseño del Estado	
	de Jalisco, A.C. (CIATEJ) is a public research center that belongs to the	
	national technology development and innovation network, the National	
	Council for Science and Technology (CONACyT). CIATEJ is focused on the	
	agricultural, food, health, and environmental sectors with an emphasis	
	on the application of innovative biotechnology.	
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