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The Effect of *Brucella abortus* Lipopolysaccharide Subunit Vaccine in Adjuvant Montanide ISA 70 in Sheep Antibody Titer and Levels of IFN-γ

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ABSTRACT

The aims of this study is to determine the effect of vaccine sub unit lipopolysaccharide Brucella aborus in adjuvant Montanid ISA 70 in sheep antibody titer and levels of IFN- γ with different doses. This study used 18 sheep as experimental animals, whit 3 different treatments groups for each treatments group consist of 6 sheep. Group P0 : control, treatment group P1 : 50 μ g / ml of LPS Brucella abortus in adjuvant Montanide ISA 70, treatment group P2 : 100 µg / ml LPS Brucella abortus in adjuvant montanide ISA 70. Observation were done at 2nd and 4th week post vaccination. In this study, data of antibody titer and data of IFN- γ level were analyzed by ANOVA Univariated test followed by Tukey test. The results showed that the sub-unit of Brucella abortus lipopolysaccharide vaccine in adjuvant Montanide ISA 70 had an effect on antibody titer and IFN- γ level. Different doses have an effect on the value of antibody titers and levels of IFN- γ . At a dose of 100 µg / ml showed an antibody titer higher than the 50 μ g / ml dose. At a dose of 50 μ g / ml showed higher IFN- γ values than did doses of 100 μ g / ml. Post vaccination in the 2nd and 4th weeks did not have a significant effect on the antibody titer and the level of gamma interferon.

Keywords

: LPS *Brucella abortus*, Montanide ISA 70, Antibody Titer, IFNγ, Sheep

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