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**Title:** Prevalence of mastitis caused by *M. haemolytica* in sheep Miandoab region

**Summary:**

*Mannheimia haemolytica* is an etiologic agent of subclinical and clinical mastitis in sheep. Therefore, considering the importance of *M. haemolytica* in causing mastitis, the aim of this study was to investigate the prevalence of mastitis caused by this bacterium using culture and PCR techniques in sheep farms in Miandoab region. In order to detect and isolate *M. haemolytica* bacteria, 100 samples of breast milk were collected in Miandoab region. In order to isolate and culture bacteria, samples were taken sterile and transferred to the laboratory under ice package. In this study, specific primers were used for *lktA* and *rrnA* genes. In PCR and culture, 6 samples (6%) based on *lktA* and *rrnA* genes were positive. Finally, the results showed that *M. haemolytica* is prevalent in sheep in Miandoab region. Therefore, applying preventive measures and hygiene are needed to limit the spread of the disease of this bacterium.

**Key words:** *Mannheimia haemolytica*, sheep, mastitis, Miandoab